SONY

VIDEO PROJECTOR

VPL-HS50
VPL-HS51

REMOTE COMMANDER
RM-PJHS50

SERVICE MANUAL
1st Edition

⚠警告

このマニュアルは，サービス専用です。
お客様が，このマニュアルに記載された設置や保守，点検，修理などを行うと感電や火災，人身事故につながることがあります。
危険をさけるため，サービストレーニングを受けた技術者のみご使用ください。

⚠WARNING

This manual is intended for qualified service personnel only.
To reduce the risk of electric shock, fire or injury, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so. Refer all servicing to qualified service personnel.

⚠WARNUNG

Die Anleitung ist nur für qualifiziertes Fachpersonal bestimmt.
Alle Wartungsarbeiten dürfen nur von qualifiziertem Fachpersonal ausgeführt werden. Um die Gefahr eines elektrischen Schlages, Feuergefahr und Verletzungen zu vermeiden, sind bei Wartungsarbeiten strikt die Angaben in der Anleitung zu befolgen. Andere als die angegeben Wartungsarbeiten dürfen nur von Personen ausgeführt werden, die eine spezielle Befähigung dazu besitzen.

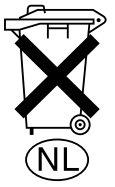
⚠ AVERTISSEMENT

Ce manual est destiné uniquement aux personnes compétentes en charge de l’entretien. Afin de réduire les risques de décharge électrique, d’incendie ou de blessure n’effectuer que les réparations indiquées dans le mode d’emploi à moins d’être qualifié pour en effectuer d’autres. Pour toute réparation faire appel à une personne compétente uniquement.

For the customers in the Netherlands
Voor de klanten in Nederland

Hoe u de batterijen moet verwijderen, leest u in de tekst van deze handleiding.

Gooi de batterij niet weg maar lever deze in als klein chemisch afval (KCA).



Für Kunden in Deutschland

Entsorgungshinweis: Bitte werfen Sie nur entladene Batterien in die Sammelboxen beim Handel oder den Kommunen. Entladen sind Batterien in der Regel dann, wenn das Gerät abschaltet und signalisiert “Batterie leer” oder nach längerer Gebrauchsdauer der Batterien “nicht mehr einwandfrei funktioniert”. Um sicherzugehen, kleben Sie die Batteriepole z.B. mit einem Klebestreifen ab oder geben Sie die Batterien einzeln in einen Plastikbeutel.

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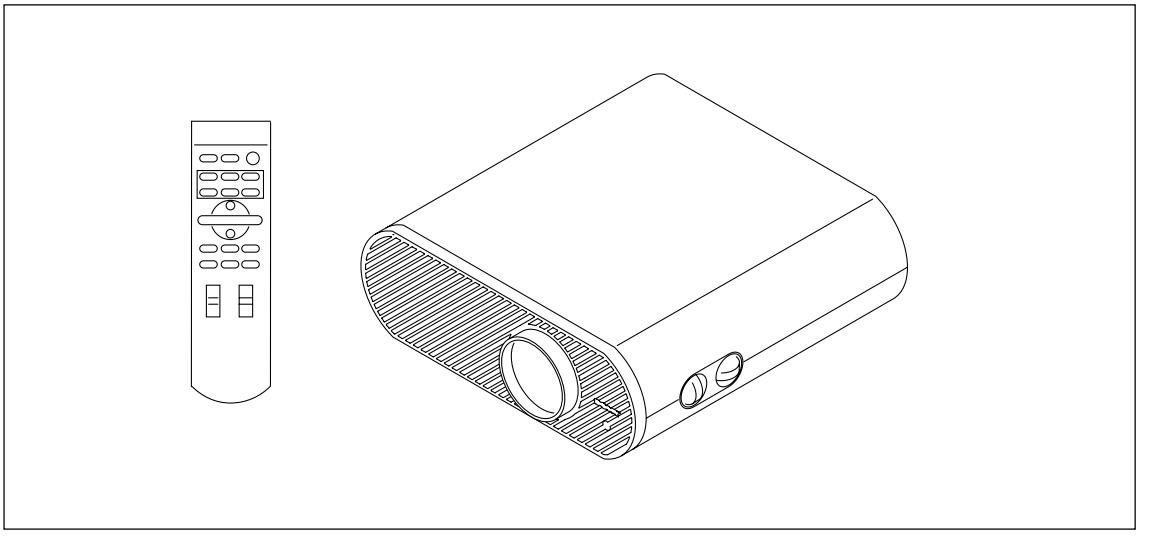
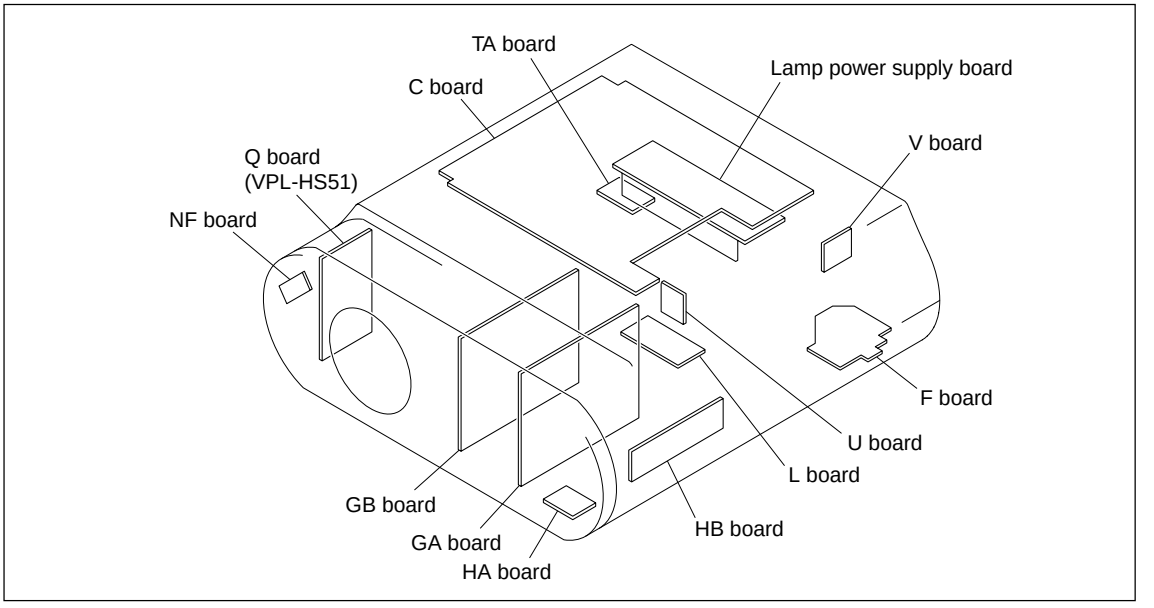
Section 1
Service Overview

1-1. External View



1-2. Board Location



1-3. Removing/Installing the Cabinet

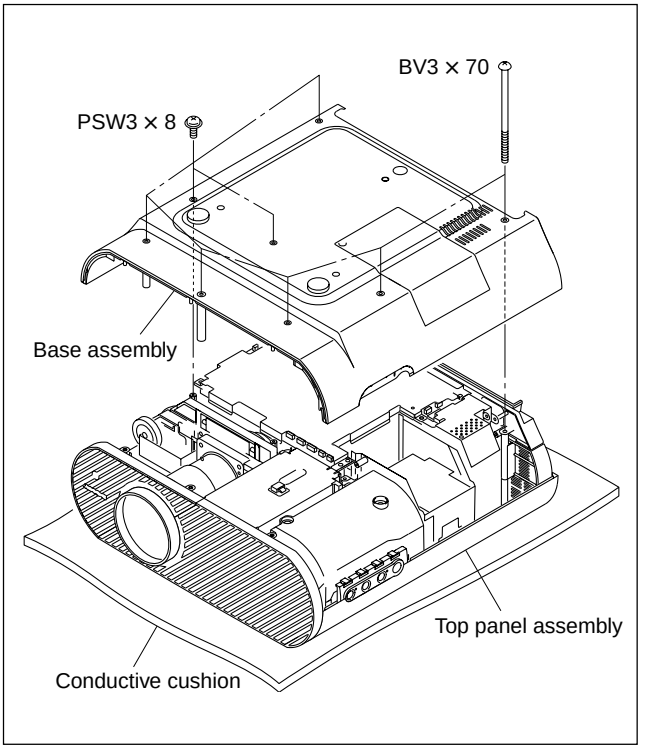
Note

When removing/installing or replacing the parts, place the unit on the conductive cushion with the top panel assembly down.

1-3-1. Base Assembly

Removal

1. Remove the six special screws (BV3 × 70) and two screws (PSW3 × 8), then remove the base assembly.



Installation

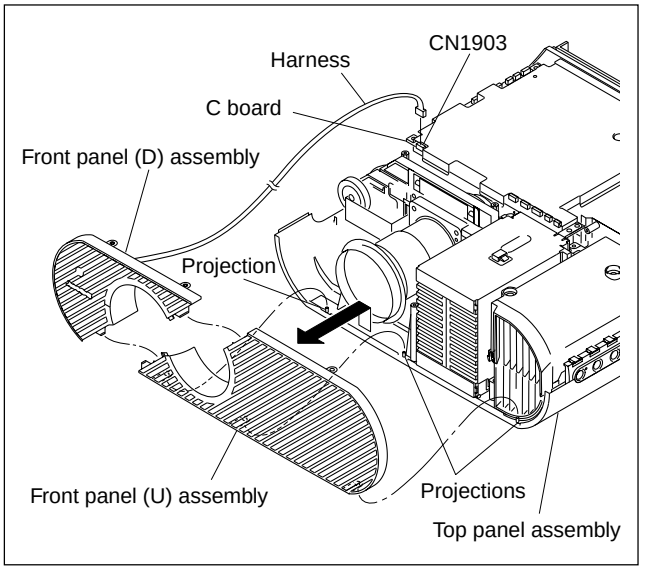
2. Attach the base assembly.

1-3-2. Front Panel (D) Assembly/Front Panel (U) Assembly

Removal (VPL-HS50)

1. Remove the base assembly. (Refer to Section 1-3-1.)

2. Disconnect the harness from the connector (CN1903) on the C board, then remove the front panel (D).
3. Remove the front panel (U) assembly from the three projections of the top panel assembly in the direction shown by the arrow.



Installation (VPL-HS50)

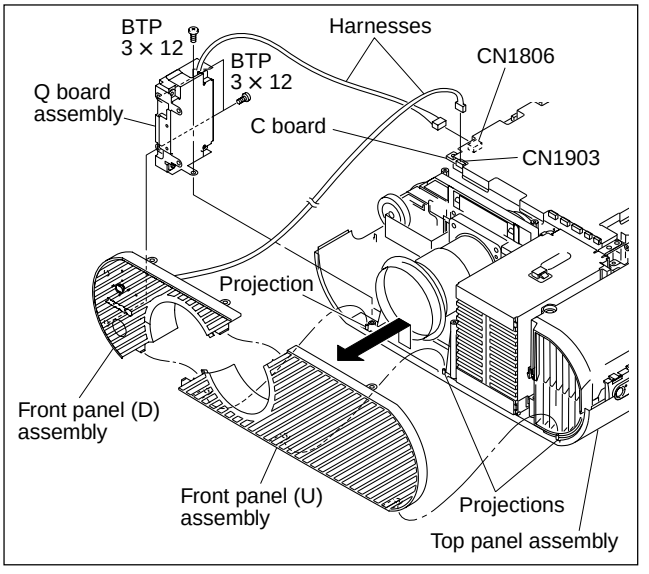
4. Attach the front panel (D) assembly and front panel (U) assembly in the reverse order of steps 2 and 3.

5. Attach the base assembly.

Removal (VPL-HS51)

1. Remove the base assembly. (Refer to Section 1-3-1.)

2. Remove the screw and disconnect the two harnesses from the connector (CN1806, 1903) on the C board, then remove the front panel (D).
3. Remove the two screws, them remove the Q board assembly.
4. Remove the front panel (U) assembly from the three projections of the top panel assembly in the direction shown by the arrow.



Installation (VPL-HS51)

5. Attach the front panel (D) assembly and front panel (U) assembly in the reverse order of steps 2 to 4.

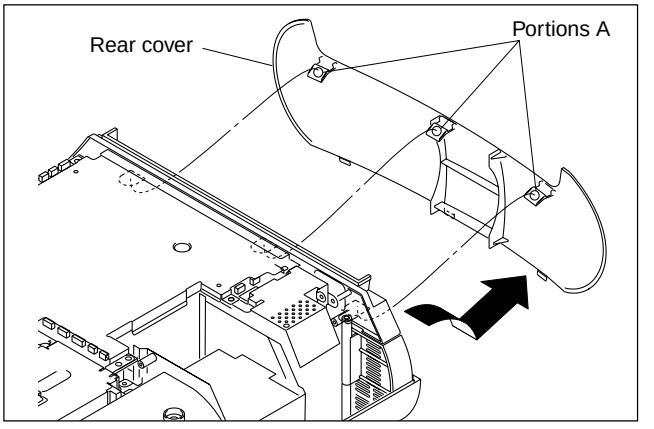
6. Attach the base assembly.

1-3-3. Rear Cover/Rear Panel

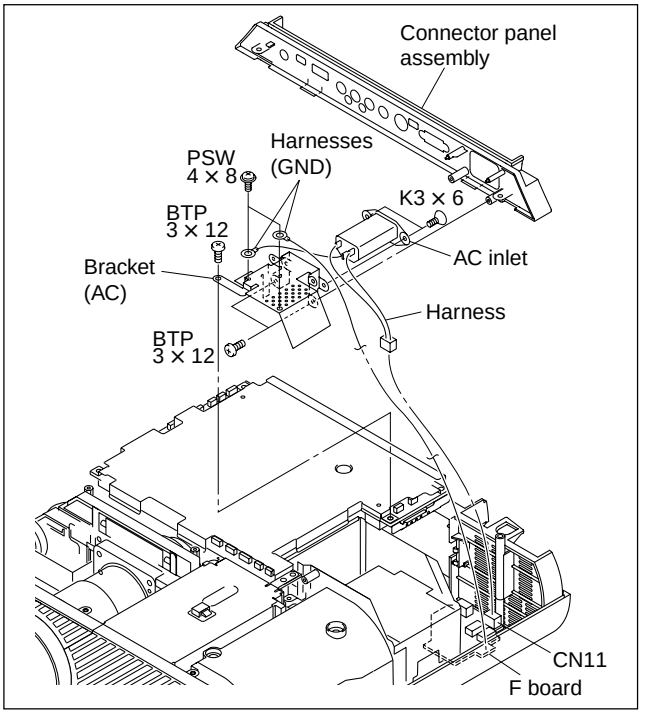
Removal

1. Remove the base assembly. (Refer to Section 1-3-1.)

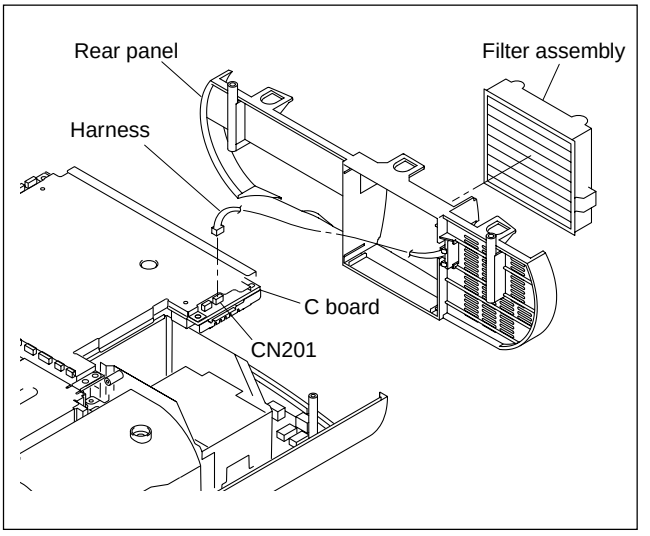
2. Push the three portions A of the rear cover, then remove the rear cover in the direction shown by the arrow.



3. Remove the screw (BTP3 × 12), then remove the connector panel assembly.
4. Disconnect the harness from the connector (CN11) on the F board.
5. Remove the two screws (BTP3 × 12), then remove the bracket (AC).
6. Remove the two screws (PSW4 × 8), then disconnect the two harnesses (GND) from the bracket (AC).
7. Remove the two screws (K3 × 6), then remove the AC inlet.



8. Disconnect the harness from the connector (CN201) on the C board.
9. Remove the filter assembly.
10. Remove the rear panel.



Installation

11. Attach the rear cover and the rear panel in the reverse order of steps 2 to 10.

12. Attach the base assembly.

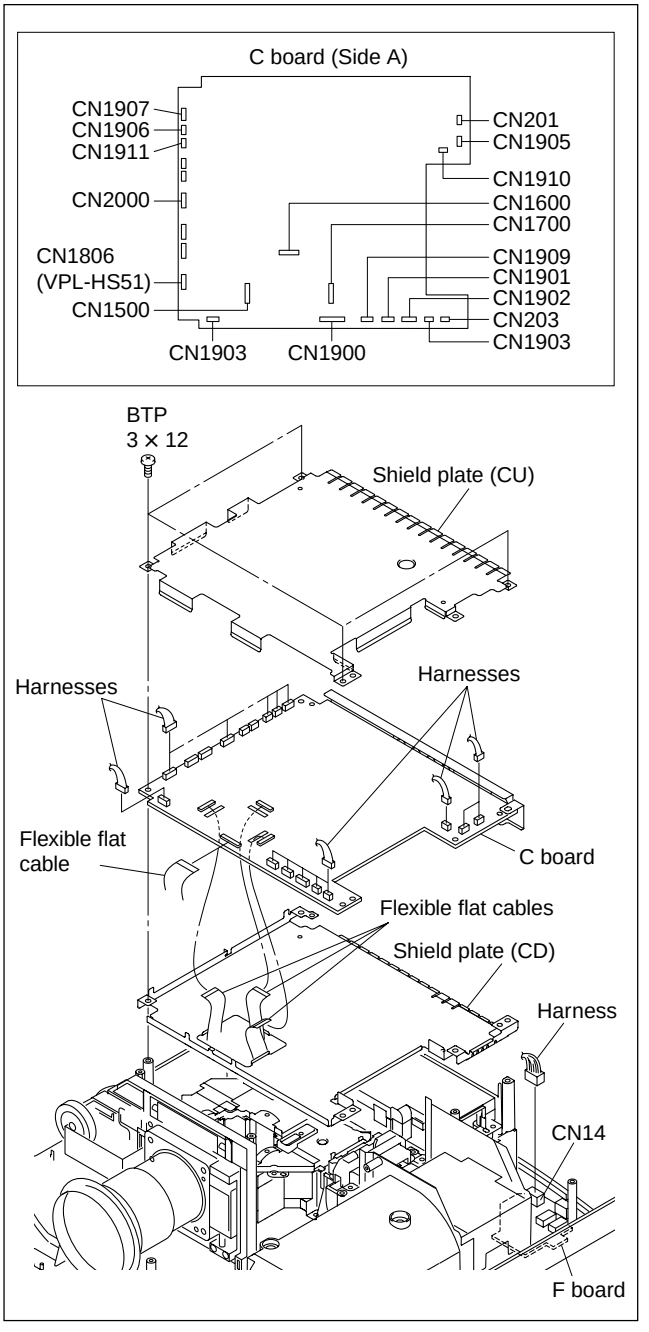
1-4. Replacing the Board

1-4-1. C Board

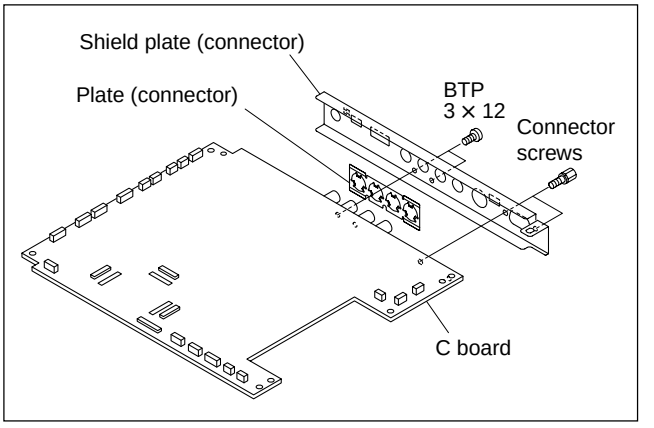
Removal

1. Remove the base assembly. (Refer to Section 1-3-1.)
2. Remove the rear cover and connector panel assembly. (Refer to steps 2 to 4 of Section 1-3-3.)

3. Remove the four screws and disconnect the harness from the connector (CN14) on the F board.
4. Remove the shield plate (CU).
5. Disconnect all harnesses and flexible flat cables from the connectors on the C board, then remove the C board.
6. Remove the shield plate (CD) from the C board.



7. Remove the two screws and two connector screws, then remove the shield plate (connector) and plate (connector).



Installation

8. Install the C board in the reverse order of steps 3 to 7.

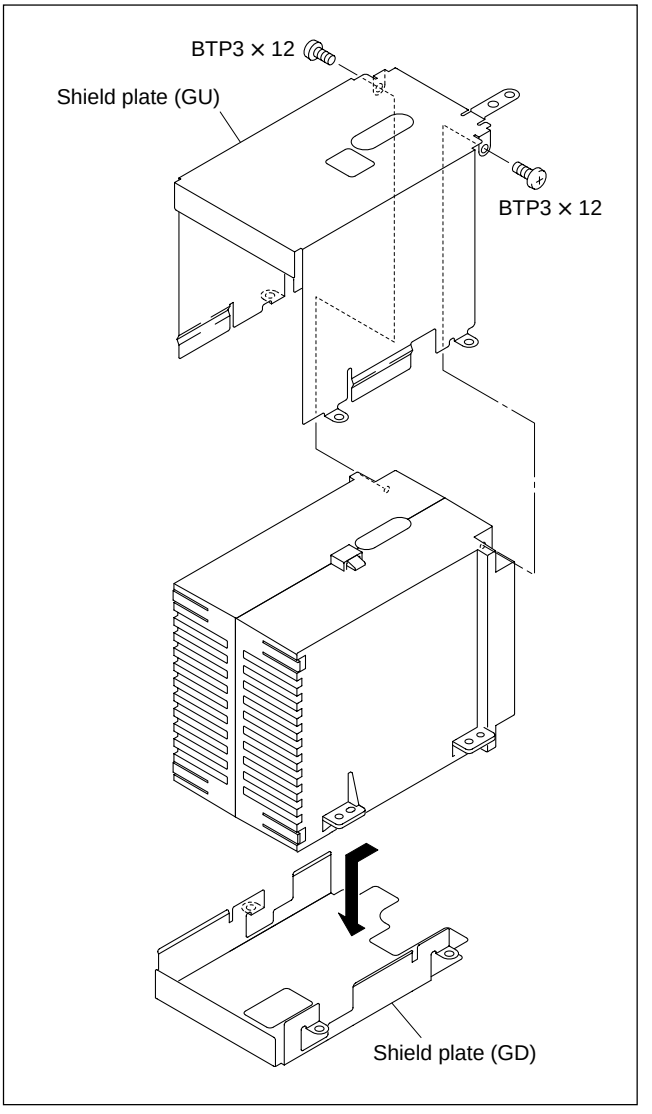
9. Assemble this unit in the reverse order of steps 1 and 2.

1-4-2. GA Board

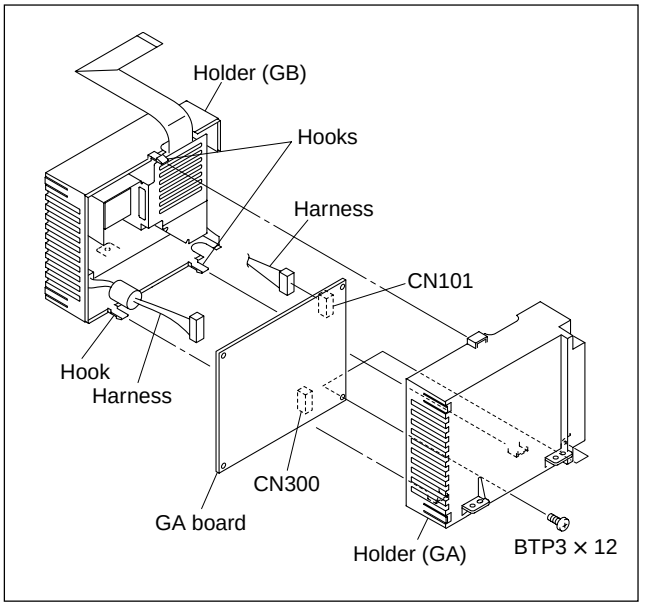
Removal

1. Remove the cabinet. (Refer to Section 1-3.)
2. Remove the C board.
   (Refer to steps 3 to 7 of Section 1-4-1.)
3. Remove the lamp assembly.
   (Refer to steps 2 and 3 of Section 1-5-2.)
4. Remove the optical block assembly.
   (Refer to step 5 of Section 1-5-3.)
5. Remove the lamp house.
   (Refer to step 6 of Section 1-4-6.)
6. Remove the GA/GB unit.
   (Refer to step 7 of Section 1-4-8.)

7. Remove the shield plate (GD) in the direction shown by the arrow.
8. Remove the two screws, then remove the shield plate (GU).



9. Remove the three hooks, then remove the holder (GB) from the holder (GA).
10. Disconnect the harness from the connector (CN300) on the GA board.
11. Remove the screw and disconnect the harness from the connector (CN101) on the GA board.



Installation

12. Install the GA board in the reverse order of steps 7 to 11.

Note

When attaching the holder (GA) and holder (GB), be careful not to catch the harness and flexible flat cable.

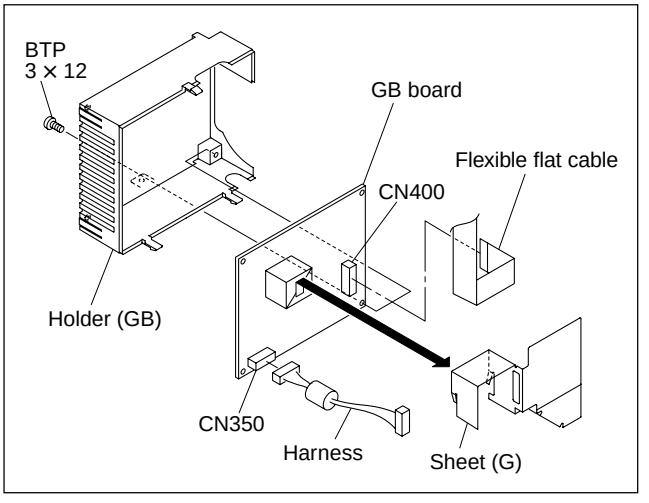
13. Assemble this unit in the reverse order of steps 1 to 6.

1-4-3. GB Board

Removal

1. Remove the cabinet. (Refer to Section 1-3.)
2. Remove the C board.
   (Refer to steps 3 to 7 of Section 1-4-1.)
3. Remove the lamp assembly.
   (Refer to steps 2 and 3 of Section 1-5-2.)
4. Remove the optical block assembly.
   (Refer to step 5 of Section 1-5-3.)
5. Remove the lamp house.
   (Refer to step 6 of Section 1-4-6.)
6. Remove the GA/GB unit.
   (Refer to step 7 of Section 1-4-8.)
7. Remove the holder (GA) and holder (GB).
   (Refer to steps 7 to 10 of Section 1-4-2.)

8. Remove the screw, then remove the GB board.
9. Remove the sheet (G) from the GB board in the direction shown by the arrow.
10. Disconnect the harness from the connector (CN350) on the GB board.
11. Disconnect the flexible flat cable from the connector (CN400) on the GB board.



Installation

12. Install the GB board in the reverse order of steps 8 to 11.

Note

When attaching the holder (GA) and holder (GB), be careful not to catch the harness and flexible flat cable.

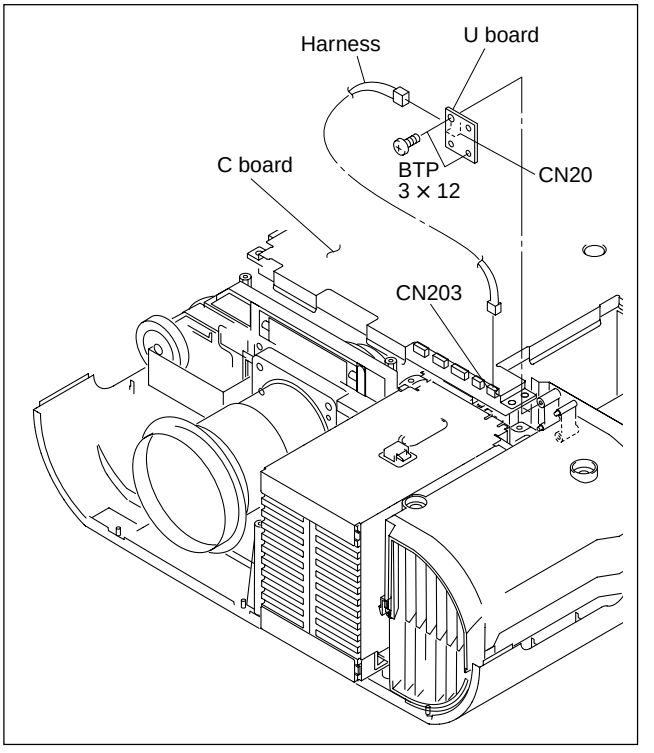
13. Assemble this unit in the reverse order of steps 1 to 7.

1-4-4. U Board

Removal

1. Remove the base assembly. (Refer to Section 1-3-1.)
2. Remove the front panel (D) assembly and front panel (U) assembly.
   (Refer to steps 2 and 3 of Removal (VPL-HS50) in Section 1-3-2.)
   (Refer to steps 2 to 4 of Removal (VPL-HS51) in Section 1-3-2.)

3. Remove the two screws and disconnect the harness from the connector (CN203) on the C board, then remove the U board.
4. Disconnect the harness from the connector (CN20) on the U board.



Installation

5. Install the U board in the reverse order of steps 3 and 4.

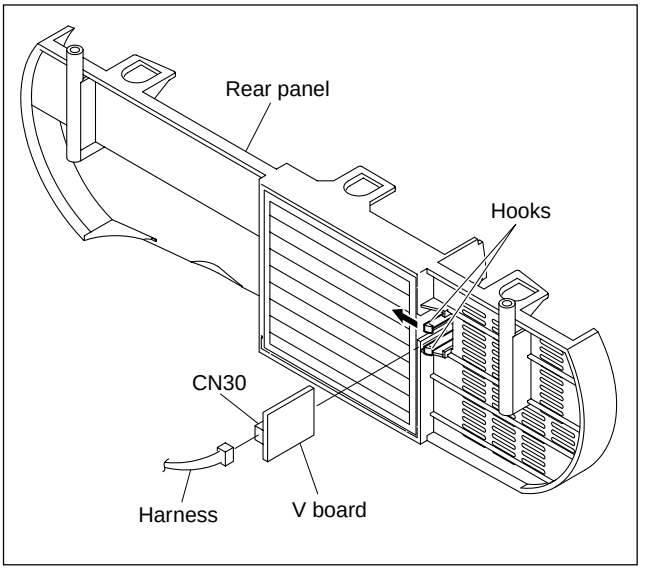
6. Assemble this unit in the reverse order of steps 1 and 2.

1-4-5. V Board

Removal

1. Remove the base assembly. (Refer to Section 1-3-1.)
2. Remove the rear cover and rear panel. (Refer to Section 1-3-3.)

3. Remove the two hooks of the rear panel, then remove the V board.
4. Disconnect the harness from the connector (CN30) on the V board.



Installation

5. Install the V board in the reverse order of steps 3 and 4.

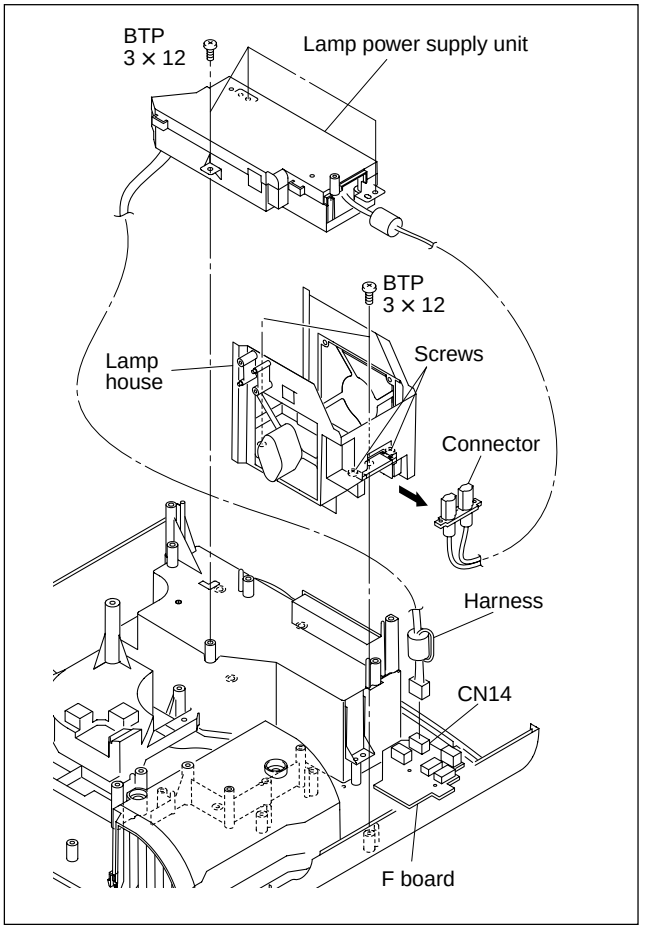
6. Assemble this unit in the reverse order of steps 1 and 2.

1-4-6. Lamp Power Supply Board

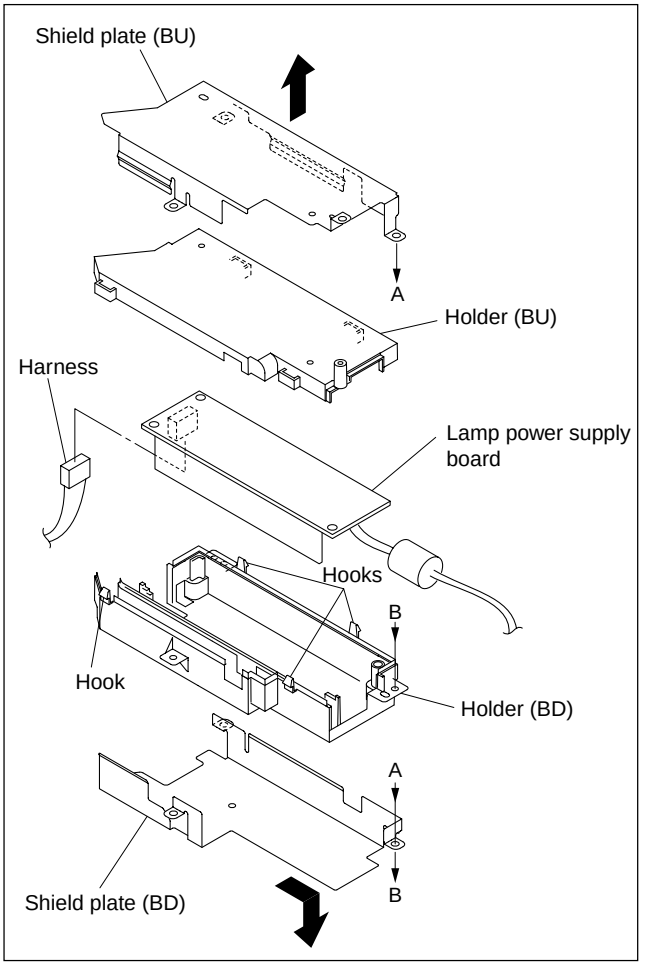
Removal

1. Remove the cabinet. (Refer to Section 1-3.)
2. Remove the C board. (Refer to steps 3 to 7 of Section 1-4-1.)
3. Remove the lamp assembly. (Refer to steps 2 and 3 of Section 1-5-2.)
4. Remove the optical block assembly. (Refer to step 5 of Section 1-5-3.)

5. Remove the three screws and disconnect the harness from the connector (CN14) on the F board, then remove the lamp power supply unit.
6. Remove the two screws, then remove the lamp house.
7. Loosen the two screws, then remove the connector.



8. Remove the shield plate (BD) in the direction shown by the arrow.
9. Remove the shield plate (BU) in the direction shown by the arrow.
10. Remove the four hooks of the holder (BD), then remove the holder (BU) and lamp power supply board.
11. Disconnect the harness from the connector on the lamp power supply board.



Installation

12. Install the lamp power supply board in the reverse order of steps 5 to 11.

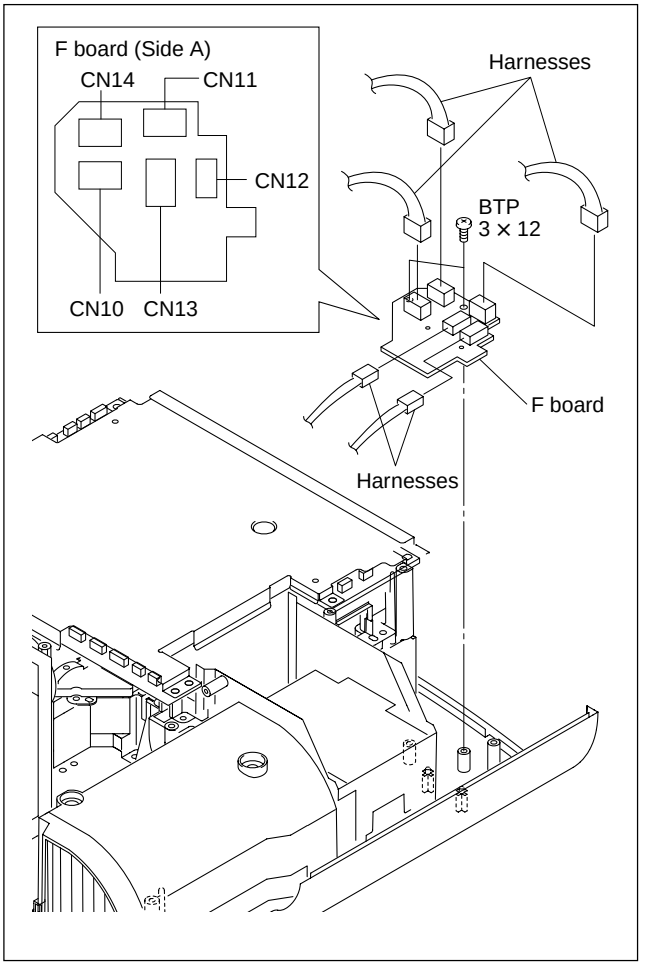
13. Assemble this unit in the reverse order of steps 1 to 4.

1-4-7. F Board

Removal

1. Remove the cabinet. (Refer to Section 1-3.)

2. Disconnect the five harnesses from the connector (CN10 to CN14) on the F board.
3. Remove the two screws, then remove the F board.



Installation

4. Install the F board in the reverse order of steps 2 and 3.

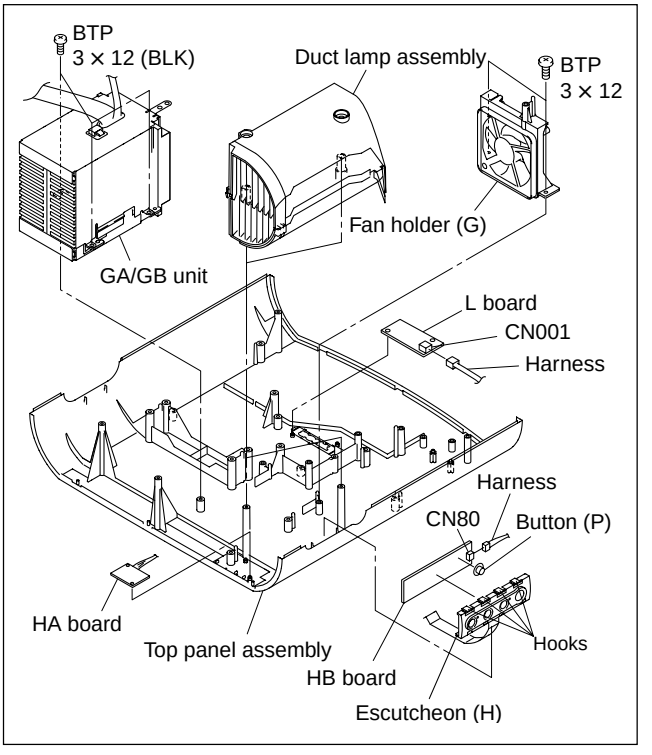
5. Attach the cabinet.

1-4-8. HA Board/HB Board/L Board

Removal

1. Remove the cabinet. (Refer to Section 1-3.)
2. Remove the C board.
   (Refer to steps 3 to 7 of Section 1-4-1.)
3. Remove the lamp assembly.
   (Refer to steps 2 and 3 of Section 1-5-2.)
4. Remove the optical block assembly.
   (Refer to step 5 of Section 1-5-3.)
5. Remove the lamp house.
   (Refer to step 6 of Section 1-4-6.)

6. Remove the duct lamp assembly.
7. Remove the three screws, then remove the GA/GB unit.
8. Remove the two screws, then remove the fan holder (G).
9. Remove the HA board.
10. Remove the escutcheon (H) from the top panel assembly.
11. Remove the four hooks, then remove the HB board.
12. Disconnect the harness from the connector (CN80) on the HB board.
13. Remove the button (P) from the HB board.
14. Remove the L board.
15. Disconnect the harness from the connector (CN001) on the L board.



Installation

16. Install the HA board, HB board and L board in the reverse order of steps 6 to 15.

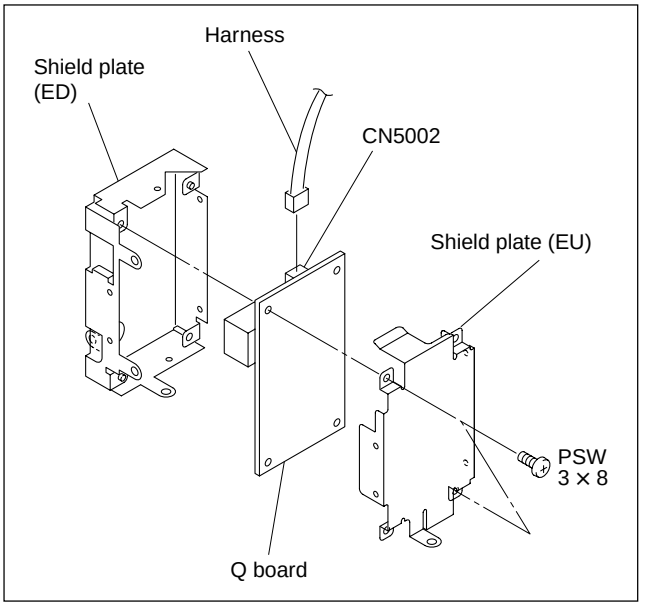
17. Assemble this unit in the reverse order of steps 1 to 5.

1-4-9. Q Board (VPL-HS51)

Removal

1. Remove the base assembly. (Refer to Section 1-3-1.)
2. Remove the front panel (D) assembly.
   (Refer to steps 2 to 4 of Removal (VPL-HS51) in Section 1-3-2.)

3. Remove the two screws, then remove the Q board.
4. Disconnect the harness from the connector (CN5002) on the Q board.



Installation

5. Install the Q board in the reverse order of steps 3, 4.

6. Assemble this unit in the reverse order of steps 1 and 2.

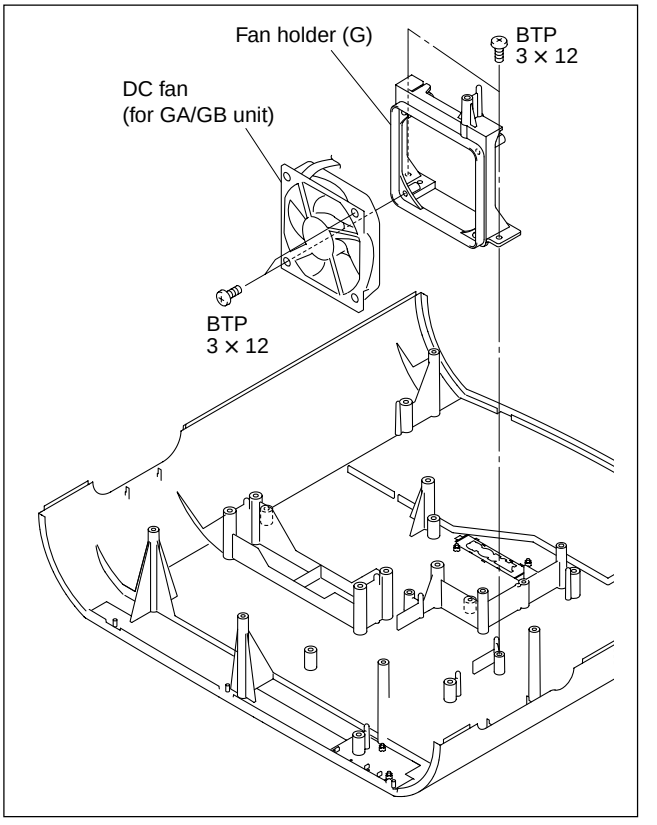
1-5. Replacing the Main Parts

1-5-1. DC Fan (for GA/GB unit)

Removal

1. Remove the cabinet. (Refer to Section 1-3.)
2. Remove the C board.
   (Refer to steps 3 to 7 of Section 1-4-1.)
3. Remove the lamp assembly.
   (Refer to steps 2 and 3 of Section 1-5-2.)
4. Remove the optical block assembly.
   (Refer to step 5 of Section 1-5-3.)
5. Remove the lamp house.
   (Refer to step 6 of Section 1-4-6.)
6. Remove the duct lamp assembly.
   (Refer to step 6 of Section 1-4-8.)

7. Remove the two screws, then remove the fan holder (G).
8. Remove the two screws, then remove the DC fan (for GA/GB unit).



Installation

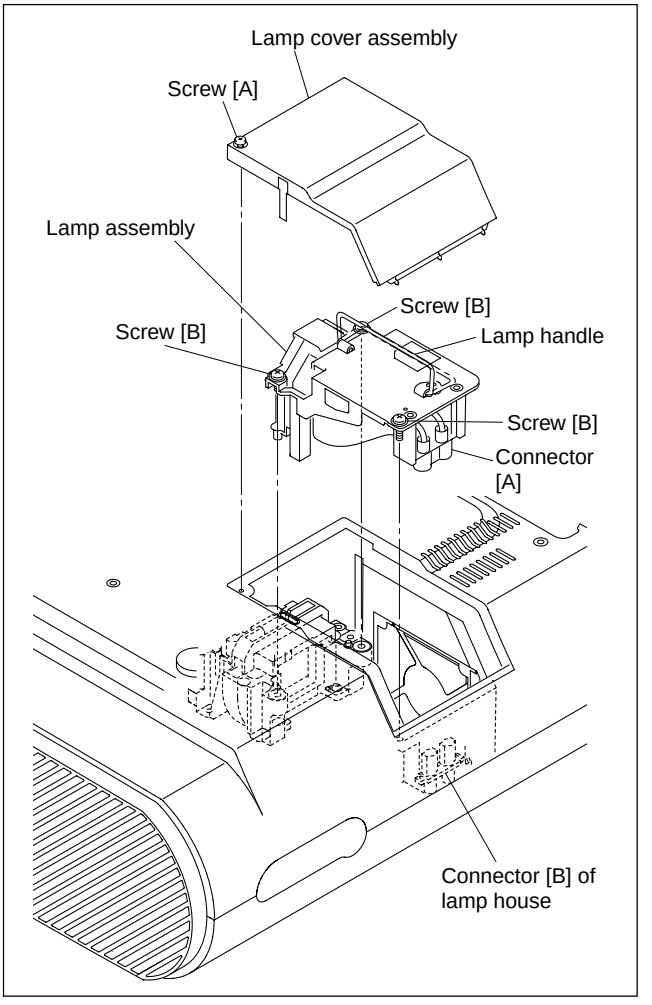
9. Attach the DC fan (for GA/GB unit) in the reverse order of steps 7 and 8.

10. Assemble this unit in the reverse order of steps 1 to 6.

1-5-2. Lamp Assembly

Removal

1. Loosen the screw [A], then remove the lamp cover assembly.
2. Loosen the three screws [B].
3. Hold the lamp handle, then lift the lamp assembly slowly.



Installation

4. Attach the lamp assembly in the reverse order of steps 1 to 3.

Note

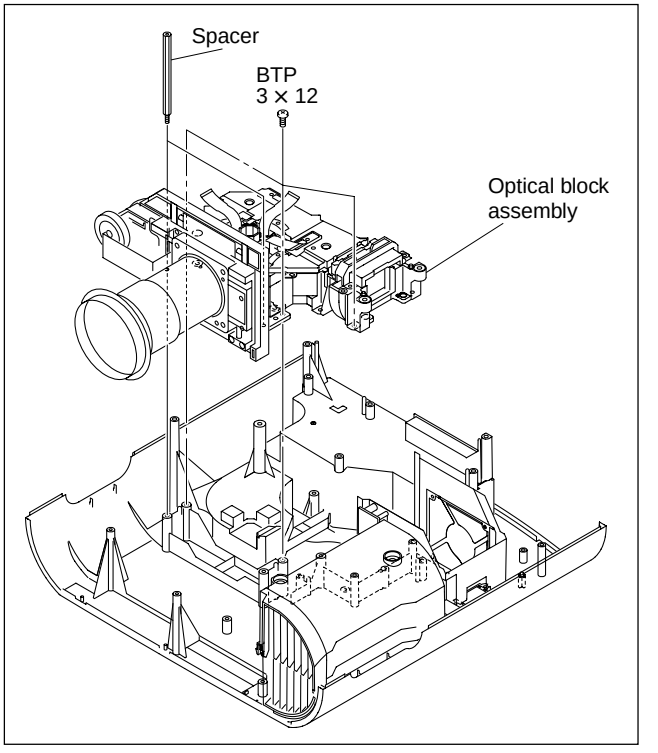
When attaching the lamp assembly, be sure to securely insert the connector [A] of the lamp assembly into the connector [B] of the lamp house.

1-5-3. Optical Block Assembly

Removal

1. Remove the cabinet. (Refer to Section 1-3.)
2. Remove the C board.
   (Refer to steps 3 to 7 of Section 1-4-1.)
3. Remove the lamp assembly.
   (Refer to steps 2 and 3 of Section 1-5-2.)
4. Remove the lamp power supply board.
   (Refer to steps 5 to 11 of Section 1-4-6.)

5. Remove the three screws and two spacers, then remove the optical block assembly.



Installation

6. Attach the optical block assembly in the reverse order of step 5.

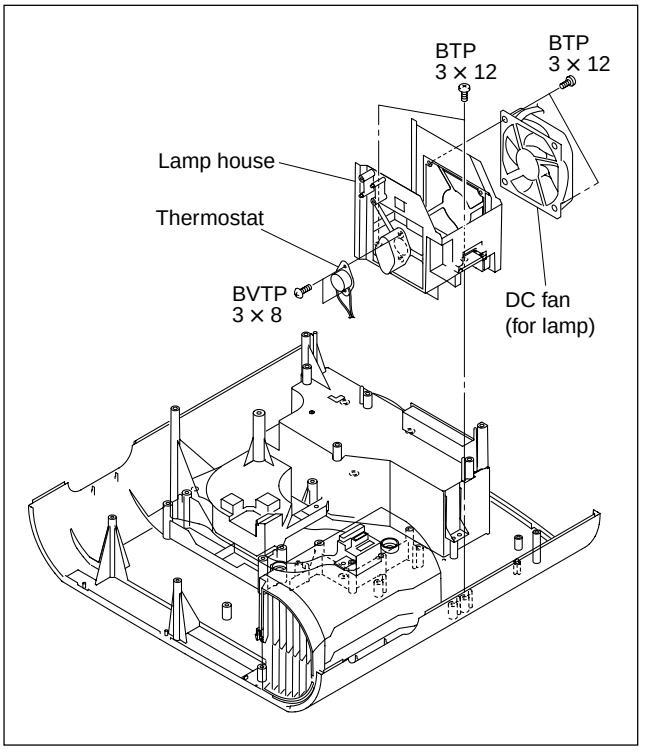
7. Assemble this unit in the reverse order of steps 1 to 4.

1-5-4. DC Fan (for Lamp)

Removal

1. Remove the cabinet. (Refer to Section 1-3.)
2. Remove the C board.
   (Refer to steps 3 to 7 of Section 1-4-1.)
3. Remove the lamp assembly.
   (Refer to steps 2 and 3 of Section 1-5-2.)
4. Remove the optical block assembly.
   (Refer to step 5 of Section 1-5-3.)

5. Remove the two screws (BTP3 × 12), then remove the lamp house.
6. Remove the two screws (BTP3 × 12), then remove the DC fan (for lamp).
7. Remove the two screws (BVTP3 × 6), then remove the thermostat.



Installation

8. Attach the DC fan (for lamp) in the reverse order of steps 5 to 7.

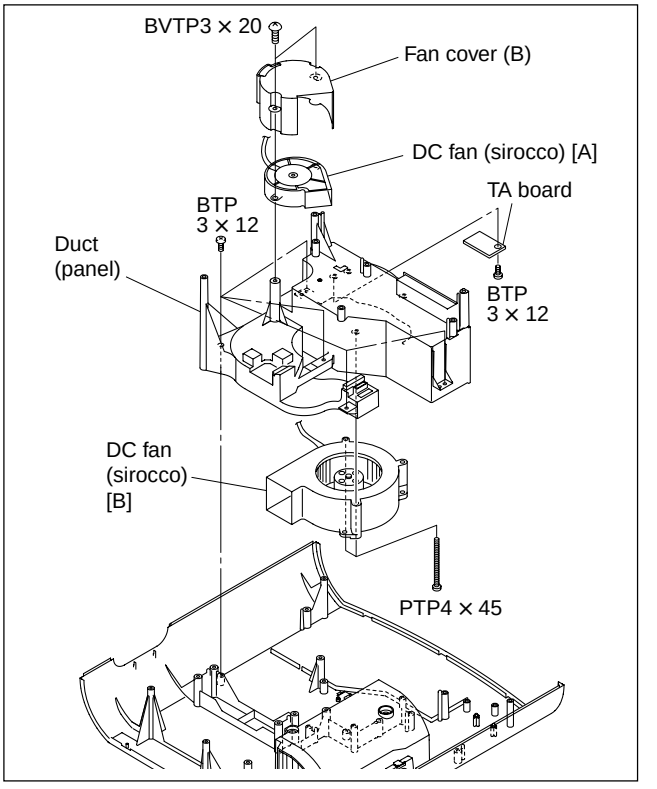
9. Assemble this unit in the reverse order of steps 1 to 4.

1-5-5. DC Fan (for Lamp Power Supply) and TA Board

Removal

1. Remove the cabinet. (Refer to Section 1-3.)
2. Remove the C board.
   (Refer to steps 3 to 7 of Section 1-4-1.)
3. Remove the lamp assembly.
   (Refer to steps 2 and 3 of Section 1-5-2.)
4. Remove the lamp power supply board.
   (Refer to step 5 to 11 of Section 1-4-6.)
5. Remove the optical block assembly.
   (Refer to step 5 of Section 1-5-3.)

6. Remove the two screws (BVTP3 × 20), then remove the fan cover (B) and DC fan (Sirocco) [A].
7. Remove the five screws (BTP3 × 12), then remove the duct (panel).
8. Remove the three screws (PTP4 × 45), then remove the DC fan (sirocco) [B].
9. Remove the screw (BTP3 × 12), then remove the TA board.



Installation

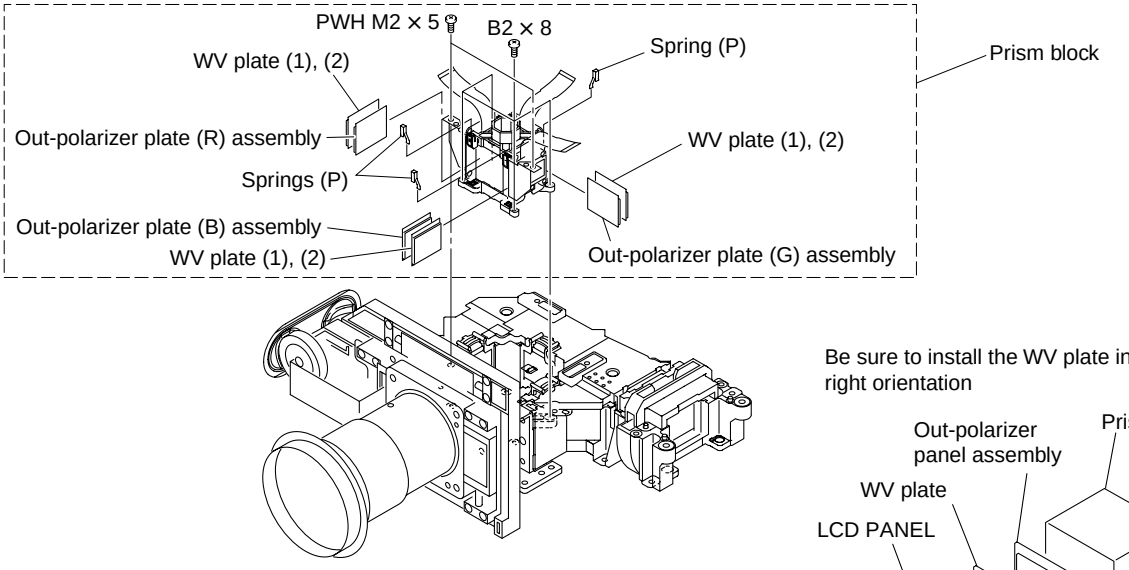
10. Attach the DC fan (for lamp power supply) and TA board in the reverse order of steps 6 to 9.

11. Assemble this unit in the reverse order of steps 1 to 5.

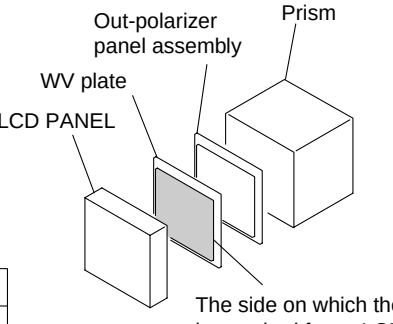
1-5-6. Prism Block and WV Plate (1), (2)

Removal

1. Remove the cabinet. (Refer to Section 1-3.)
2. Remove the C board.
   (Refer to steps 3 to 7 of Section 1-4-1.)
3. Remove the lamp assembly.
   (Refer to steps 2 and 3 of Section 1-5-2.)
4. Remove the optical block assembly.
   (Refer to step 5 of Section 1-5-3.)
5. Remove the two screws (PWH M2 × 5) and four screws (B2 × 8), then remove the prism block.
6. Remove the spring (P), then remove the out-polarizer plate (R) assembly on the outgoing radiation side and WV plate (1), (2).
7. Remove the spring (P), then remove the out-polarizer plate (G) assembly on the outgoing radiation side and WV plate (1), (2).
8. Remove the spring (P), then remove the out-polarizer plate (B) assembly on the outgoing radiation side and WV plate (1), (2).



Be sure to install the WV plate in the right orientation



・Precautions when replacing the WV plate

The WV plate to be used varies depending on the type of LCD panels and the respective R/G/B channels. Use the part specified respectively.

LCD Panel Combination 1	R-ch	G-ch	B-ch
Type of LCD panels	LCX071AYB	LCX071AXB	LCX071AYB
WV plate	WV plate (1) 2-024-625-01	WV plate (2) 2-024-626-11	WV plate (1) 2-024-625-21

LCD Panel Combination 2	R-ch	G-ch	B-ch
Type of LCD panels	LCX071AXB	LCX071AYB	LCX071AXB
WV plate	WV plate (2) 2-024-626-01	WV plate (1) 2-024-625-11	WV plate (2) 2-024-626-21

Note: Use the panel in above described combination

Precautions when repalcing the WV plate (1)

Installation

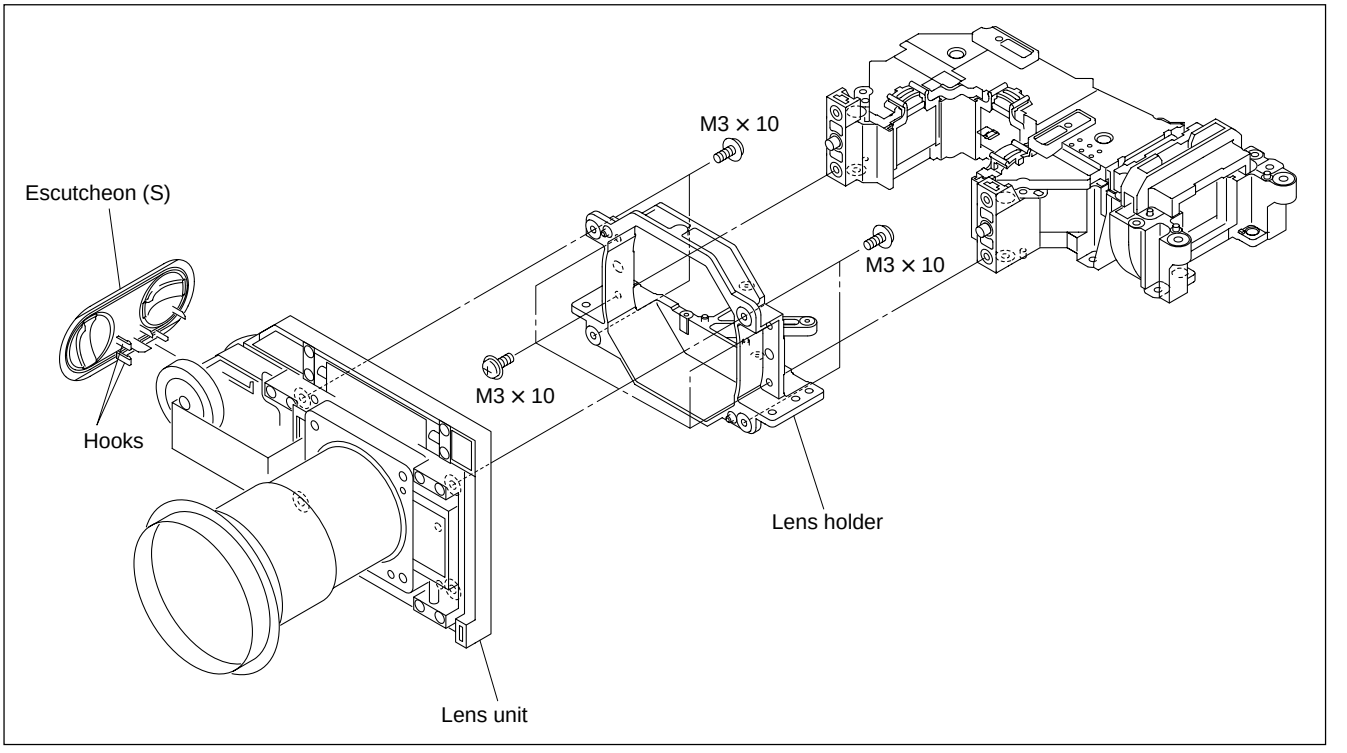
9. Attach the prism block and WV plate (1), (2) in the reverse order of steps 5 to 8.
10. Assemble this unit in the reverse order of steps 1 to 4.

1-5-7. Lens Unit

Removal

1. Remove the cabinet. (Refer to Section 1-3.)
2. Remove the C board. (Refer to steps 3 to 7 of Section 1-4-1.)
3. Remove the lamp assembly. (Refer to steps 2 and 3 of Section 1-5-2.)
4. Remove the optical block assembly. (Refer to step 5 of Section 1-5-3.)

5. Remove the four screws, then remove the lens holder from the lens unit.
6. Remove the four screws, then remove the lens unit.
7. Remove the two hooks, then remove the escutcheon (S).



Installation

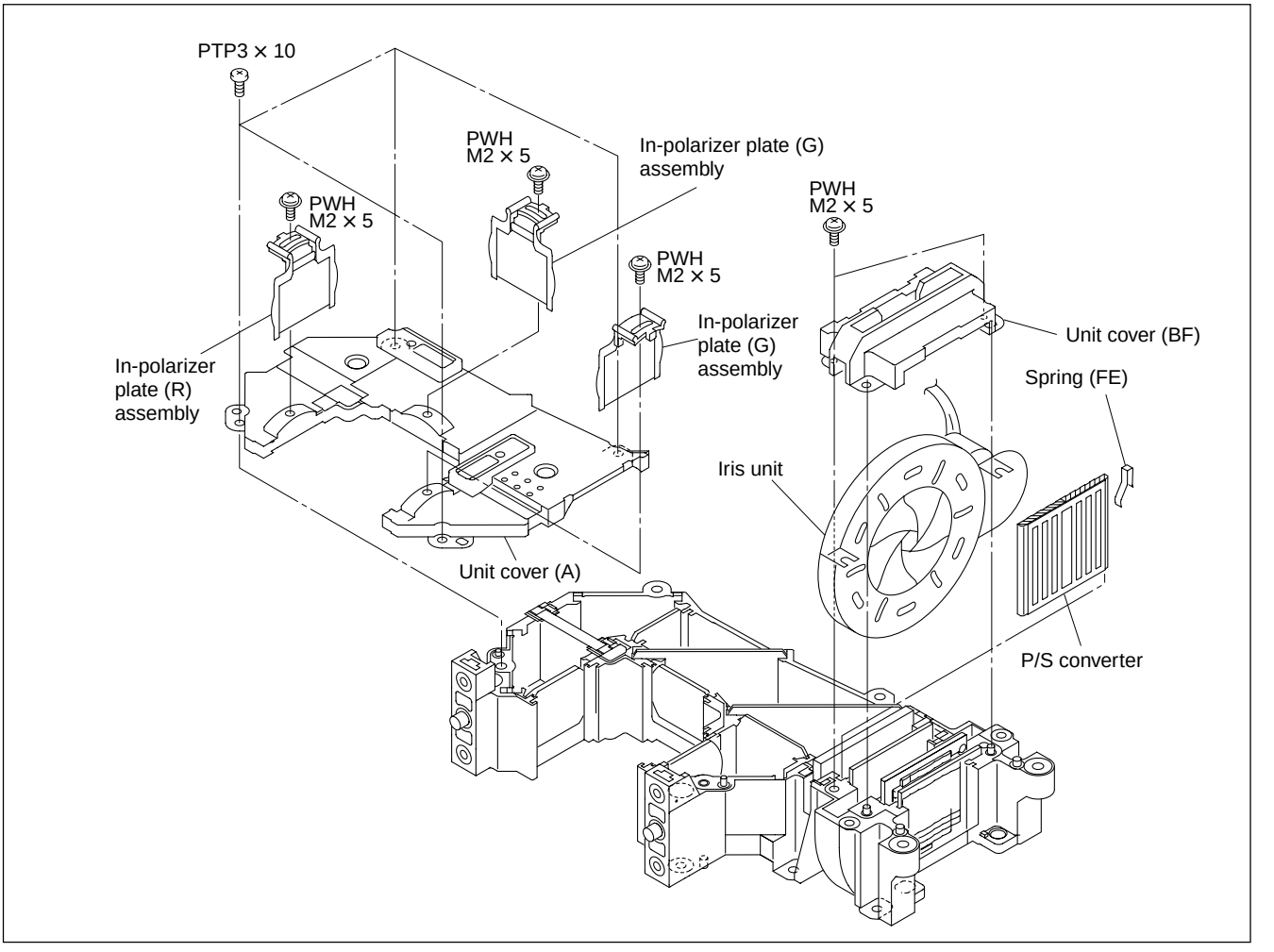
8. Attach the lens unit in the reverse order of steps 5 to 7.

9. Assemble this unit in the reverse order of steps 1 to 4.

1-5-8. Unit Assembly

Removal

1. Remove the cabinet. (Refer to Section 1-3.)
2. Remove the C board.
   (Refer to steps 3 to 7 of Section 1-4-1.)
3. Remove the lamp assembly.
   (Refer to steps 2 and 3 of Section 1-5-2.)
4. Remove the optical block assembly.
   (Refer to step 5 of Section 1-5-3.)
5. Remove the prism block.
   (Refer to step 5 of Section 1-5-6.)
6. Remove the screw (PWH M2 × 5), then remove the in-polarizer plate (R) assembly on the incoming radiation side.
7. Remove the screw (PWH M2 × 5), then remove the in-polarizer plate (G) assembly on the incoming radiation side.
8. Remove the screw (PWH M2 × 5), then remove the in-polarizer plate (B) assembly on the incoming radiation side.
9. Remove the four screws (PTP3 × 10), then remove the unit cover (A).
10. Remove the screw (PWH M2 × 5), then remove the unit cover (BF).
11. Remove the aperture unit.
12. Remove the spring (FE), then remove the P/S conversion device.



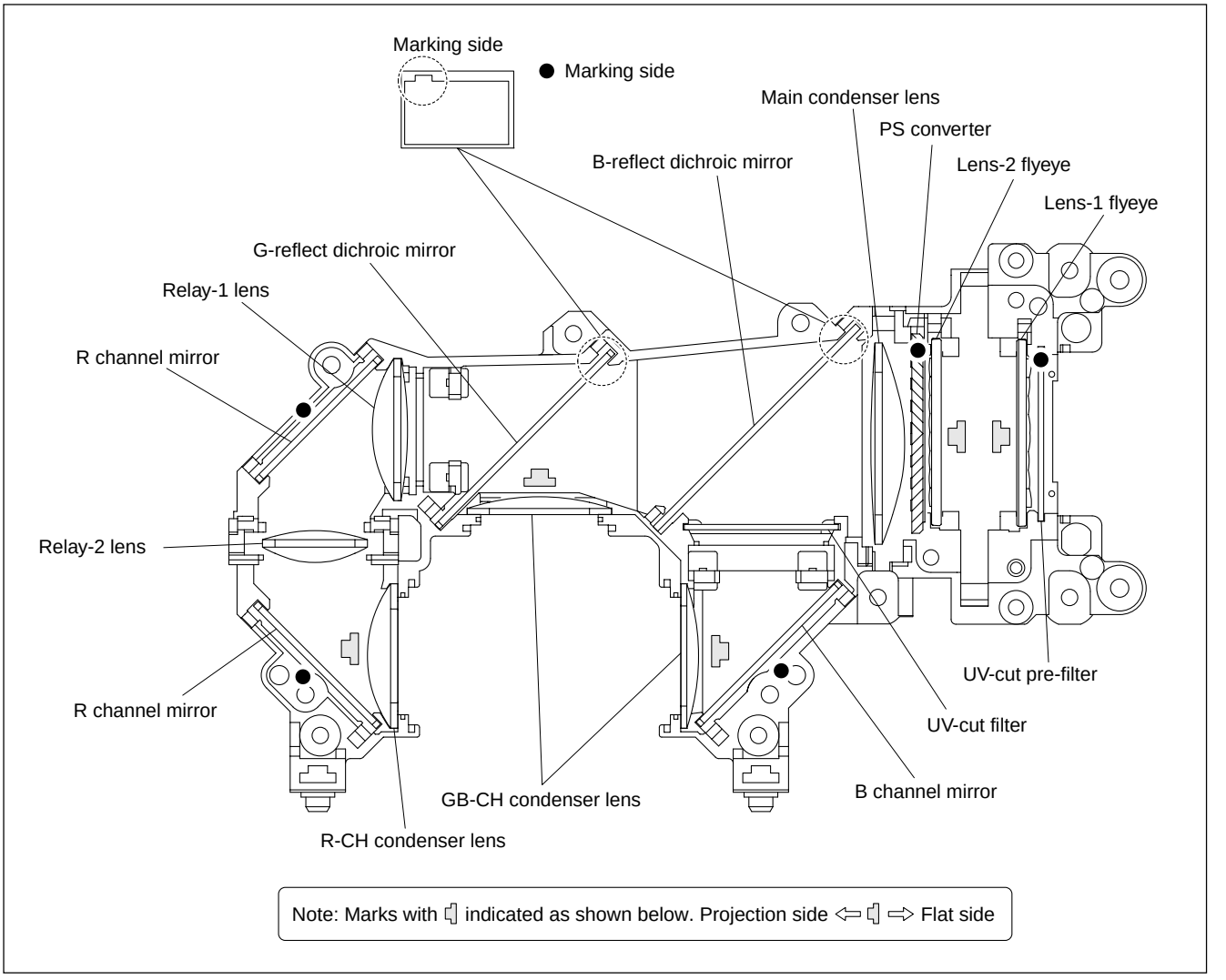
Installation

13. Attach the unit assembly in the reverse order of steps 6 to 12.
14. Assemble this unit in the reverse order of steps 1 to 5.

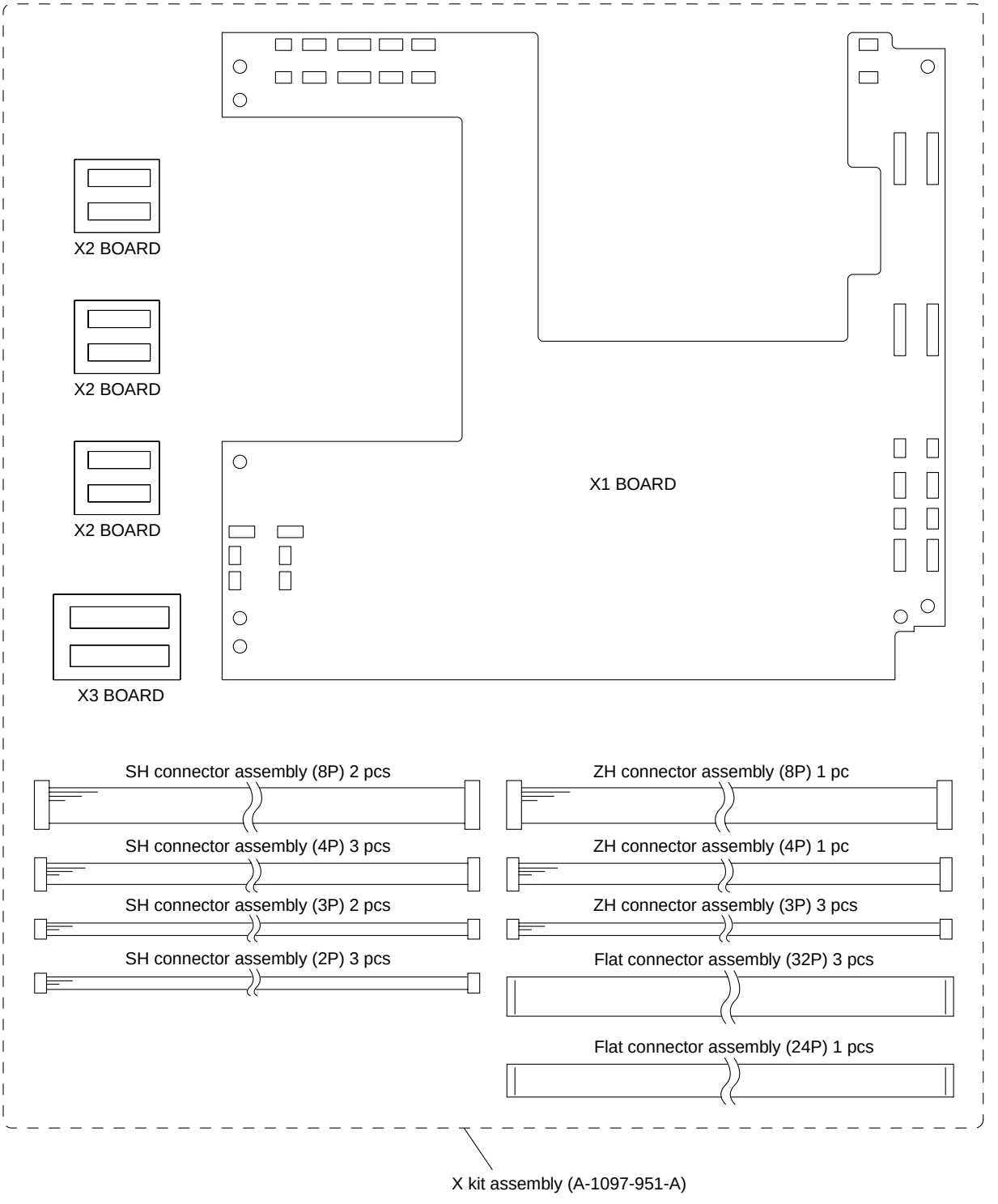
1-5-9. Unit Assembly Parts Orientation

Note

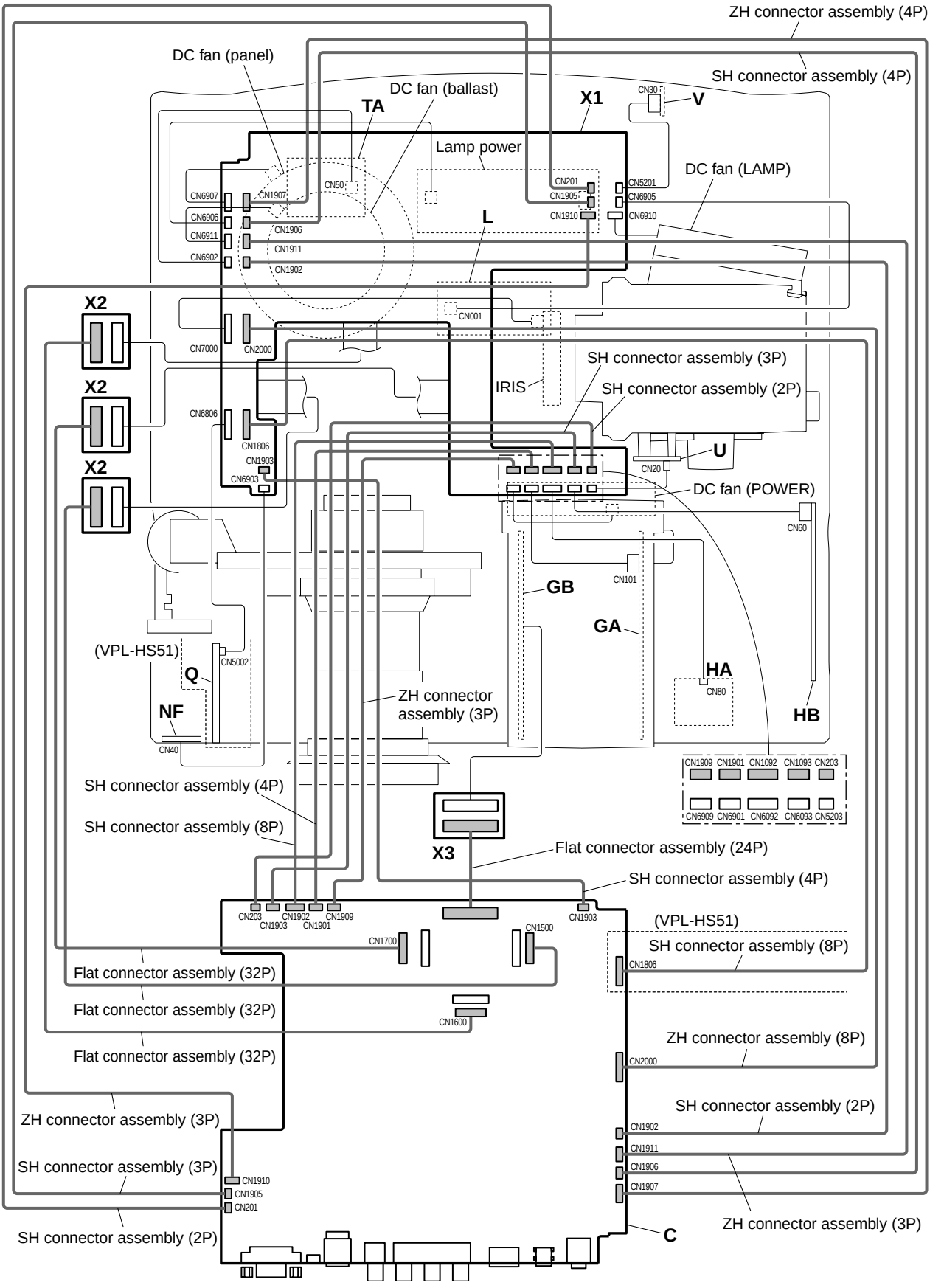
The main condenser lens assembly and the relay-2 lens assembly are fixed to the unit assembly and cannot be removed.



1-5-10. Extension Board and Extension Connectors


X2 BOARD
X2 BOARD
X2 BOARD
X3 BOARD
X1 BOARD
SH connector assembly (8P) 2 pcs
SH connector assembly (4P) 3 pcs
SH connector assembly (3P) 2 pcs
SH connector assembly (2P) 3 pcs
ZH connector assembly (8P) 1 pc
ZH connector assembly (4P) 1 pc
ZH connector assembly (3P) 3 pcs
Flat connector assembly (32P) 3 pcs
Flat connector assembly (24P) 1 pcs
X kit assembly (A-1097-951-A)

1-5-11. Extension Board and Extension Connectors Connection



1-6. Unleaded Solder

Boards requiring use of unleaded solder are printed with a lead free mark (LF) indicating the solder contains no lead. (Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size.)

: LEAD FREE MARK

Notes

- Be sure to use the unleaded solder for the printed circuit board printed with the lead free mark.
- The unleaded solder melts at a temperature about 40 °C higher than the ordinary solder, therefore, it is recommended to use the soldering iron having a temperature regulator.
- The ordinary soldering iron can be used but the iron tip has to be applied to the solder joint for a slightly longer time. The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful.

1-7. Service Knowhow

1-7-1. After Replacing the Prism Block

1. Perform Section “2-2. V COM Adjustment.”
2. Perform the Look Up Table or 3D GAMMA data writing of the Prism Block.
3. Perform Section “2-4. White Balance Adjustment on Servicing.”

1-7-2. After Replacing the Board

- Refer to the cross table (page 1-23).
- There are no need to perform the adjustment when the board other than the C board had been replaced.

1) When Replacing the C Board

1. Before replacement, unsolder the IC1403 from the replaced C board and then mount it to the new board.
2. Perform Section “2-2. V COM Adjustment.”
3. If the white balance is extremely deteriorated, perform the white balance adjustment (Refer to Section 2-4.).
4. Perform Section “3) Iris Adjustment.”

2) When Replacing the Other Board

There are no need to perform the adjustment.

3) Iris Adjustment

Preparation

1. Enter “34/Iris Adj.” in Other of Device Adjust.
2. Change the value of “34/Iris Adj.” from 0 to 1.

Adjustment

1. Set the value of “35/Open Reg” to 0 and check the value of “37/Open Hall”.
2. Check the value of “37/Open Hall” while increasing the value of “35/Open Reg”.
3. Check the value of “35/Open Reg” when the value of “37/Open Hall” is decreased by 2 from the value of step 1.
4. Save the value that is increased by 10 from the value of “35/Open Reg” in step 3.
5. Set the value of “36/Close Reg” to 255 and check the value of “38/Close Hall”.
6. Set the value of “36/Close Reg” to 0 and check the value of “38/Close Hall” while increasing the value of “36/Close Reg”.
7. Check the value of “36/Close Reg” when the value of “38/Close Hall” is increased by 1 from the value in step 5.
8. Save the value that is decreased by 14 from the value of “36/Close Reg” in step 7.

Procedure after adjustment

1. Reset the value of “34/Iris Adj.” to 0.
2. Save the value in the memory.

4) Fan Voltage Adjustment

Preparation

1. Enter “27:Fan/Reg Adj.Cont” in Other of Device Adjust.
2. Change the value of “27:Fan/Reg Adj.Cont” from 0 to 1.

Adjustment

1. Maximum voltage adjustment for fan 1 drive

1. Enter “28: Fan1/Reg Max” in Other of Device Adjust.
2. Adjust the voltage so that pin 1 of the connector CN1907 on the C board is within the following specification.
   Specification: 12.0 ±0.1 V

2. Minimum voltage adjustment for fan 1 drive

1. Enter “29: Fan1/Reg Min” in Other of Device Adjust.
2. Adjust the voltage so that pin 1 of the connector CN1907 on the C board is within the following specification.
   Specification: 4.55 ±0.05 V

3. Maximum voltage adjustment for fan 4 drive

1. Enter “30: Fan2/Reg Max” in Other of Device Adjust.
2. Adjust the voltage so that pin 1 of the connector CN1910 on the C board is within the following specification.
   Specification: 12.0 ±0.1 V

4. Maximum voltage adjustment for fan 3 drive

1. Adjust the voltage so that pin 1 of the connector CN1909 on the C board is within the following specification.
   Specification: 12.0 ±0.1 V

5. Minimum voltage adjustment for fan 4 drive

1. Enter “31: Fan2/Reg Min” in Other of Device Adjust.
2. Adjust the voltage so that pin 1 of the connector CN1910 on the C board is within the following specification.
   Specification: 6.2 ±0.1 V

6. Minimum voltage adjustment for fan 3 drive

1. Adjust the voltage so that pin 1 of the connector CN1909 on the C board is within the following specification.
   Specification: 6.2 ±0.1 V

7. Maximum voltage adjustment for fan 5 drive

1. Enter “32: Fan3/Reg Max” in Other of Device Adjust.
2. Adjust the voltage so that pin 1 of the connector CN1911 on the C board is within the following specification.
   Specification: 12.0 ±0.1 V

8. Minimum voltage adjustment for fan 5 drive

1. Enter “33: Fan3/Reg Max” in Other of Device Adjust.
2. Adjust the voltage so that pin 1 of the connector CN1911 on the C board is within the following specification.
   Specification: 4.55 ±0.05 V

Procedure after adjustment

1. Change the value of “27:Fan/Reg Adj.Cont” from 1 to 0.
2. Save the value in the memory.

1-7-3. NVM (Non-Voltible-Memory)

NVM access error

The Lamp and Temp LEDs blink at high speed (at intervals of 0.5 seconds).
Replace the parts or C board because the IIC communication device may be defective.

NVM data error

The Power/Standby LED blinks at high speed (at intervals of 0.5 seconds).

1. Replace the C board because the data of IC1804 has been destroyed.
2. Replace IC403 and IC1807 on the C board before the C board is replaced and mount them on a (new) C board.
3. Perform the iris adjustment in step 3) of Section 1-7-2.
4. Perform the VCOM adjustment in Section 2-2.
5. Perform the W/B adjustment when the W/B state is remarkably bad.

Cross Table of Board Replacement

Device Name	Item Name	Board Name
		C
P.DRV	VCOM (R)	○
	VCOM (G)	○
	VCOM (B)	○
W/B ADJUST		
INPUT-A HIGH	GAIN R	○
	GAIN G	○
	GAIN B	○
	BIAS R	○
	BIAS G	○
	BIAS B	○
INPUT-A LOW	GAIN R	○
	GAIN G	○
	GAIN B	○
	BIAS R	○
	BIAS G	○
	BIAS B	○
INPUT-A HIGH	GAIN R	○
	GAIN G	○
	GAIN B	○
	BIAS R	○
	BIAS G	○
	BIAS B	○
INPUT-A MID	GAIN R	○
	GAIN G	○
	GAIN B	○
	BIAS R	○
	BIAS G	○
	BIAS B	○
VIDEO MID	GAIN R	○
	GAIN G	○
	GAIN B	○
	BIAS R	○
	BIAS G	○
	BIAS B	○
VIDEO LOW	GAIN R	○
	GAIN G	○
	GAIN B	○
	BIAS R	○
	BIAS G	○
	BIAS B	○

○: Need adjustment

1-8. Memory

Memory structure consists of the following five memory blocks.

1. Set memory
2. Status memory
3. Chroma memory
4. W/B memory
5. Channel memory
6. Image Flip memory
7. Picture memory
8. RCP memory
9. Fan memory

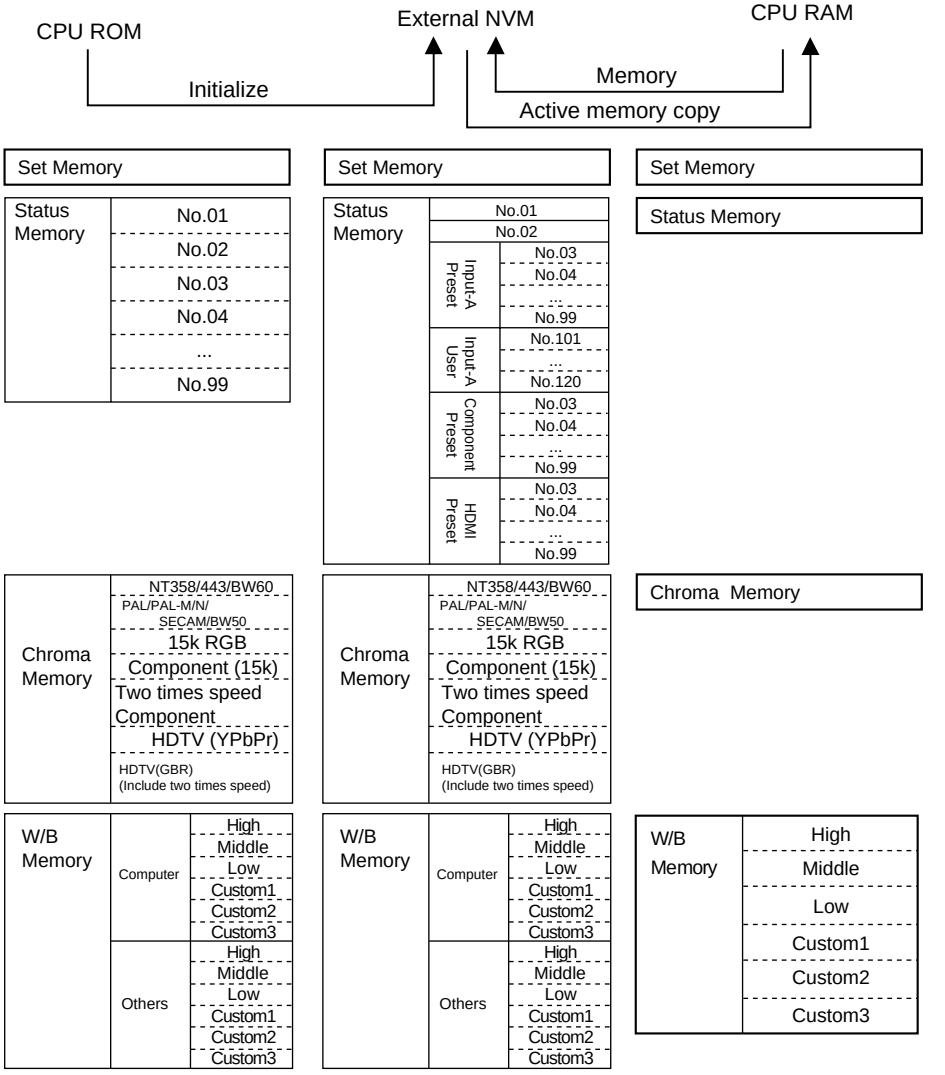
CPU internal ROM : 512 kbyte Flash Memory
CPU internal ROM : 32 kbyte
External NVM memory : 8 kbyte EEPROM

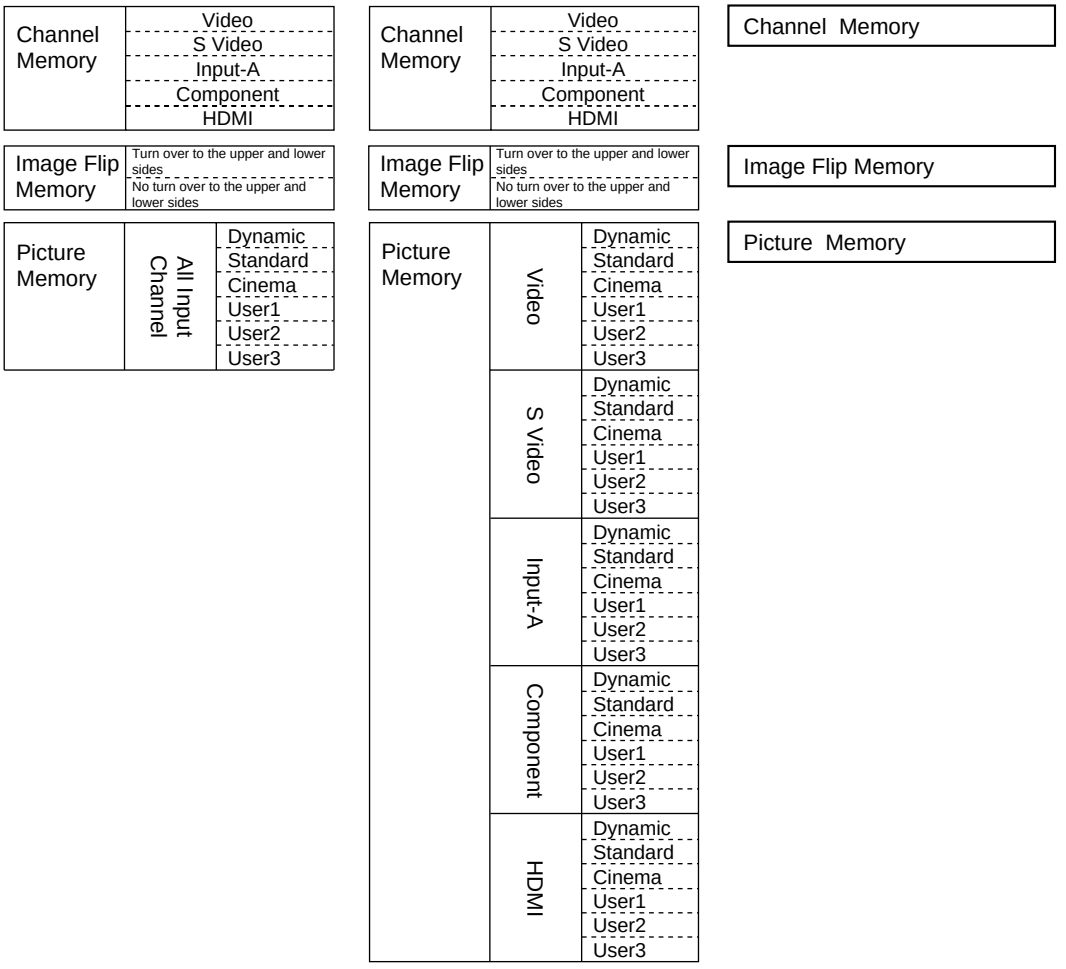
Gamma memory is actualized through Gamma mode functions' offsetting the output values to the Contrast and Brightness devices.

When the power plug is connected to the power line (Standby status), all data inside the internal ROM are written into the NVM (Nonvolatile Memory). When the power is turned to on, required data for the current picture, such as status memory data, etc., are selected, and they are written into the internal RAM.

When adjustment is carried out, adjustment data are written into the NVM automatically (items on the user mode) or by the trigger of memory operation (items on the factory mode), then stored them.

Adjustable items (W/B and Device Adjust) of the factory mode are memorized into the NVM by the memory operation. At the same time, the factory preset (adjusted) data are all eliminated from the memory.




Channel Memory
Video
S Video
Input-A
Component
HDMI
Image Flip Memory
Turn over to the upper and lower sides
No turn over to the upper and lower sides
Picture Memory
All Input Channel
Dynamic
Standard
Cinema
User1
User2
User3
Video
S Video
Input-A
Component
HDMI

1-9. Warning on Power Connection

Use a proper power cord for your local power supply.

	The United States, Canada	Continental Europe	UK	Australia	Japan
Plug type	YP-11	YP-21	SP-61	B8	YP-13
Female end	YC-13L	YC-13L	YC-13L	C7-2	YC-13L
Cord type	SPT-2	H03VVH2-F	H03VVH2-F	H03VVH2-F	VCTFK
Rated Voltage & Current	10 A/125 V	2.5 A/250 V	2.5 A/250 V	2.5 A/250 V	7 A/250 V
Safety approval	UL/CSA	VDE	BS	SAA	DENANHO

* Use a rated plug that complies with the regulation of each country and the specifications.

Section 2
Electrical Adjustments

2-1. Preparations

2-1-1. Required Equipment

- Oscilloscope
  Tektronix 2465 or equivalent
  (bandwidth: 350 MHz or more)
- NTSC, PAL, SECAM component signal generator
  Tektronix TG2000 + AVG1 (optional module) + AWVG1 (optional module) or equivalent
- VG (Programmable video signal generator)
  VG854 or equivalent
- Digital voltmeter
  Advantest TR6845 or equivalent
- Luminance meter
- Chrominance difference gauge

Note

Perform the following adjustments at least 5 minutes after turning on the power.

2-1-2. Factory Mode Setting

1. Press the “Setup” key on the MENU.
   The “Setup” menu is displayed.
2. Set the “Status” item to “On”.
3. Exit the menu.
4. Press the keys in the following order:
   “ENTER” → “ENTER” → “LEFT” → “ENTER”
5. The message “Do you wish to enter into the FACTORY MODE? Yes:↑ No:↓ ” will be displayed.
6. Select “Yes:↑”.

Note

When leaving the FACTORY MODE, perform item 3. “Do you wish to return to the USER MODE? Yes:↑ No:↓ ” will be displayed. Select “Yes:↑”.

2-2. V COM Adjustment

1. Input the green-only XGA 1 Lime ON/OFF signal to INPUT-A, and set the CONTRAST to 70.
2. Set the screen to G VCOM adjustment of “Device Adjust.”
3. Adjust the G VCOM so that the flicker on the screen is minimum.
4. Change the input signal to the red-only and blue-only 1 line ON/OFF signal respectively and adjust R VCOM and B VCOM respectively so that the flicker becomes minimum as described in step 3.
5. Save the value adjusted.
6. Set the “Image Flip” to either “V” or “HV”.
7. Input the R/G/B value adjusted as above step 5.
8. Save the value adjusted.
9. Set the “Image Flip” to “OFF”.

2-3. Adjustment Item Initialize Data

MenuTitle	ItemName	Memory Name											
		Set Memory	Status Memory	Picture Memory						RCP Memory			
				All Input Ch.									
				Dynamic	Standard	Cinema	User1	User2	User3	Off	User1	User2	User3
Picture	Picture Mode		∗1										
	Adjust Picture												
	Contrast			80	80	80	80	80	80				
	Brightness			55	50	50	50	50	50				
	Color			60	50	50	50	50	50				
	Hue			50	50	50	50	50	50				
	Sharpness			50	50	50	50	50	50				
	Black Level Adj.			Low	Off	Off	Off	Off	Off				
	Gamma Correction			Off	Off	Off	Off	Off	Off				
	Color Temp.			Middle	Middle	Low	Low	Low	Low				
	Custom1												
	Gain R												
	G												
	B												
	Bias R												
	G												
	B												
	Custom2												
	Gain R												
	G												
	B												
	Bias R												
	G												
	B												
	Custom3												
	Gain R												
	G												
	B												
	Bias R												
	G												
	B												
	DDE			Film	Film	Film	Film	Film	Film				
	Cinema Black Pro												
	Advanced Iris			Off	Off	Auto	Auto	Auto	Auto				
	Lamp Control			High	Low	Low	Low	Low	Low				
	RCP			Off	Off	Off	Off	Off	Off				
	Color Select										Red	Red	Red
	Position										Adjust	Adjust	Adjust
	Range										Adjust	Adjust	Adjust
	Color										0	0	0
	Hue										0	0	0
Signal	Adjust Signal...												
	Dot Phase		15 (∗1)										
	H Size		∗1										
	Shift		∗1										
	Wide Mode			Full	Full	Full	Full	Full	Full				
	V Position(Zoom)			4	4	4	4	4	4				
	V Position(Sub Title)			4	4	4	4	4	4				
	Title Area			0	0	0	0	0	0				
Function	Smart APA												
	Auto Input Search												
	Standby Mode												
	Power Saving												

∗1: “Dot Phase, H Size, Shift H/V and Picture Mode” in the “INPUT SETTING” menu have an initial value respectively in accordance with the input signal (PRESET MEMORY No.).

∗2: VPL-51 only

Note: There are nonadjustable items in accordance with the input signal.

Memory Name													Remarks
	W/B Memory												
	Computer						Others						
	High	Middle	Low	Custom1	Custom2	Custom3	High	Middle	Low	Custom1	Custom2	Custom3	

MenuTitle	ItemName	Memory Name												
		Set Memory	Status Memory	Picture Memory						RCP Memory				
				All Input Ch.										
				Dynamic	Standard	Cinema	User1	User2	User3	Off	User1	User2	User3	
Setup	Status	On												
	Language	English												
	Input OA Signal Sel.	Auto												
	Color System	Auto												
Installation	V Keystone	0												
	Image Flip	Off												
	Background	Blue												
	Illumination	On												
	High Altitude Mode	Off												
	Network Setting(∗2)													
	IP Address Setup(∗2)	Indication only												
	IP Address(∗2)	Indication only												
	Subnet Mask(∗2)	Indication only												
	Default Gateway(∗2)	Indication only												
	Primary DNS(∗2)	Indication only												
	Secondary DNS(∗2)	Indication only												
	MAC Address(∗2)	Indication only												
	Speed(∗2)	Indication only												
Information	fH	Indication only												
	fV	Indication only												
	(Memory No.)	Indication only												
	(Resolution)	Indication only												
	ROM Version	Indication only												
	SC ROM Version	Indication only												
	IP ROM Version(∗2)	Indication only												
	Lamp Timer	Indication only												
	Operation Timer	Indication only												
	Prev. Lamp Timer	Indication only												
W/B	Gain R													
	G													
	B													
	Bias R													
	G													
	B													

∗1: “Dot Phase, H Size, Shift H/V and Picture Mode” in the “INPUT SETTING” menu have an initial value respectively in accordance with the input signal (PRESET MEMORY No.).

∗2: VPL-51 only

Note: There are nonadjustable items in accordance with the input signal.

Memory Name													Remarks
	W/B Memory												
	Computer						Others						
	High	Middle	Low	Custom1	Custom2	Custom3	High	Middle	Low	Custom1	Custom2	Custom3	
	128	128	128	128	128	128	128	128	128	128	128	128	
	100	128	100	128	128	128	100	128	100	128	128	128	
	128	128	100	128	128	128	128	128	100	128	128	128	
	128	128	128	128	128	128	128	128	128	128	128	128	
	128	128	128	128	128	128	128	128	128	128	128	128	
	128	128	128	128	128	128	128	128	128	128	128	128	

DeviceName	ItemName		Memory Name									
			Set Memory	Status Memory	Chroma Memory							
					NT358/NT443 /BW60	Pal/Pal-M/N/ Secam/BW50	15kRGB	Component (15k)	Two times speed Component	HDTV (YPbPr)	HDTV(GBR) Include two times speed	
A/D Converter	ADC/	Clamp Position		∗2								
		Clamp Width		∗2								
		R Gain(Other)										
		R Gain(VideoGBR)										
		R Gain(Component 15k)										
		R Gain(Component 30k)										
		R Gain(Component HD)										
		G Gain(Other)										
		G Gain(VideoGBR)										
		G Gain(Component 15k)										
		G Gain(Component 30k)										
		G Gain(Component HD)										
		B Gain(Other)										
		B Gain(VideoGBR)										
		B Gain(Component 15k)										
		B Gain(Component 30k)										
		B Gain(Component HD)										
		R Offset(Other)										
		R Offset(VideoGBR)										
		R Offset(Component 15k)										
		R Offset(Component 30k)										
		R Offset(Component HD)										
		G Offset(Other)										
		G Offset(VideoGBR)										
		G Offset(Component 15k)										
		G Offset(Component 30k)										
		G Offset(Component HD)										
		B Offset(Other)										
		B Offset(VideoGBR)										
		B Offset(Component 15k)										
		B Offset(Component 30k)										
		B Offset(Component HD)										
		Pre Coast 2		2								
		Post Coast 8		8								
		Bandwidth 3		3								
	SS/	SonG Bias Current	1									
		SonG Hysterisis	1									
		SonG Thresh	1									
		Video Pos Thresh	1									
		Video Bias Current	1									
		Video Hysterisis	1									
		Video Thresh	1									
		VS Pol Gain	0									
		HS Pol Gain	0									
		Back VS Pol Gain	0									
		Back HS Pol Gain	0									
		VS Sep Sens	0									

Note: There are nonadjustable items in accordance with the input signal.

∗1: Depends on the color system and the input terminal.

∗2: Depend on the input signal.

Memory Name									Remarks
	Channel Memory					Image Flip Memory		Fan Memory	
	Video	S Video	Input-A	Component	HDMI	Turn over to the upper and lower sides	No turn over to the upper and lower sides		
	–	–	80	–	–				
	–	–	80	–	–				
	–	–	80	80	–				
	–	–	80	80	–				
	–	–	80	80	–				
	–	–	80	–	–				
	–	–	80	–	–				
	–	–	80	80	–				
	–	–	80	80	–				
	–	–	80	80	–				
	–	–	80	–	–				
	–	–	80	–	–				
	–	–	80	80	–				
	–	–	80	80	–				
	–	–	80	80	–				
	–	–	128	–	–				
	–	–	128	–	–				
	–	–	128	128	–				
	–	–	128	128	–				
	–	–	128	128	–				
	–	–	100	–	–				
	–	–	100	–	–				
	–	–	100	100	–				
	–	–	100	100	–				
	–	–	100	100	–				
	–	–	100	–	–				
	–	–	100	–	–				
	–	–	128	128	–				
	–	–	128	128	–				
	–	–	128	128	–				

DeviceName	ItemName		Memory Name									
			Set Memory	Status Memory	Chroma Memory							
					NT358/NT443 /BW60	Pal/Pal-M/N/ Secam/BW50	15kRGB	Component (15k)	Two times speed Component	HDTV (YPbPr)	HDTV(GBR) Include two times speed	
Chroma/D.Comb	Chroma/	Ch1 Gain(NTSC3.58)										
		Ch1 Gain(Other)										
		Ch2 Gain(NTSC3.58)										
		Ch2 Gain(Other)										
		Video Sharp			0	0	–	–	–	–	–	
		Video Brt			152	134	–	–	–	–	–	
		Video Cont			79	81	–	–	–	–	–	
		Video Color			64	64	–	–	–	–	–	
		Video Hue			0	0	–	–	–	–	–	
		LCBW										
		Y-DeLay	∗1									
		Ch3 Gain(NTSC3.58)										
		Ch3 Gain(Other)										
		Ch4 Gain(NTSC3.58)										
		Ch4 Gain(Other)										
		Luma COR			0	0	–	–	–	–	–	
		Luma F0			0	0	–	–	–	–	–	
		Luma SHP			0	0	–	–	–	–	–	
		Chm COR			0	0	–	–	–	–	–	
		Chm F0			0	0	–	–	–	–	–	
		Chm SHP			0	0	–	–	–	–	–	
		AOSL	–									
		Status 1	Indication only									
		Status 2	Indication only									
Panel Driver	P.Drv	Offset R										
		Offset G										
		Offset B										
		V Common R										
		V Common G										
		V Common B										
		Psig 1 R	16									
		Psig 1 G	16									
		Psig 1 B	16									
		Psig 2 R	86									
		Psig 2 G	86									
		Psig 2 B	86									
		Signal Center R	31									
		Signal Center G	31									
		Signal Center B	31									
		Gain R	158									
		Gain G	158									
		Gain B	158									
		GDCFB Auto	0									
	SH/	SH1	24									
	Other/	V Com Ptn Enb	Adjustment is impossible									
		Installation	0									

Note: There are nonadjustable items in accordance with the input signal.

∗1: Depends on the color system and the input terminal.

∗2: Depend on the input signal.

Memory Name									Remarks
	Channel Memory					Image Flip Memory		Fan Memory	
	Video	S Video	Input-A	Component	HDMI	Turn over to the upper and lower sides	No turn over to the upper and lower sides		
	18	31	–	–	–				
	31	31	–	–	–				
	31	31	–	–	–				
	31	31	–	–	–				
	6	6	–	–	–				
	31	31	–	–	–				
	31	31	–	–	–				
	31	31	–	–	–				
	31	31	–	–	–				
						116	116		
						116	116		
						116	116		
						101	101		
						101	101		
						101	101		

DeviceName	ItemName		Memory Name									
			Set Memory	Status Memory	Chroma Memory							
					NT358/NT443 /BW60	Pal/Pal-M/N/ Secam/BW50	15kRGB	Component (15k)	Two times speed Component	HDTV (YPbPr)	HDTV(GBR) Include two times speed	
Display Engine	DE/	Sub Cont	0									
		Sub Brt	0									
		LUT Through	0									
		UF SW	1									
		APC Thres	7									
		HST Position	7									
		HST Phase	116									
		Drift On	0									
		HPC R	Indication only									
		HPC G	Indication only									
		HPC B	Indication only									
		R HPC Data 0	463									
		G HPC Data 0	463									
		B HPC Data 0	463									
		R HPC Data 1	463									
		G HPC Data 1	463									
		B HPC Data 1	463									
		USC On	1									
		HPF On	1									
		HPF TAP		∗2								
		HPF AAC		∗2								
		UGM DRC On	0									
		UGM Sub Gain	96									
		UGM Sub Bias	0									
		RCP CSC Off	1									
		UGM On R	1									
		UGM On G	1									
		UGM On B	1									
		USC Limit On	0									
		USC Limit R	4095									
		USC Limit G	4095									
		USC Limit B	4095									
		RCP Hue Through	1									
		RCP Gamma R On	0									
		RCP Gamma G On	0									
		RCP Gamma B On	0									
	CSC/	CSC Mode	–									

Note: There are nonadjustable items in accordance with the input signal.

∗1: Depends on the color system and the input terminal.

∗2: Depend on the input signal.

Memory Name									Remarks
	Channel Memory					Image Flip Memory		Fan Memory	
	Video	S Video	Input-A	Component	HDMI	Turn over to the upper and lower sides	No turn over to the upper and lower sides		

DeviceName	ItemName		Memory Name									
			Set Memory	Status Memory	Chroma Memory							
					NT358/NT443 /BW60	Pal/Pal-M/N/ Secam/BW50	15kRGB	Component (15k)	Two times speed Component	HDTV (YPbPr)	HDTV(GBR) Include two times speed	
Other	Temp/	Thresh Lamp										
		Thresh Panel										
		Thresh Atmos										
	Fan/	Hi Alt Const										
		High Alt Cofe										
	Fan1/	Cont Max										
		Speed Max										
		Speed Min										
		Reg Max										
		Reg Min										
	Fan2/	Cont Max										
		Speed Max										
		Speed Min										
		Reg Max										
		Reg Min										
	Fan3/	Cont Max										
		Speed Max										
		Speed Min										
		Reg Min										
	Other/	Synchronous	1									
		X Tilt	–									
		Y Tilt	–									
		Temp Lamp	Indication only									
		Temp Panel	Indication only									
		Temp Atomos	Indication only									
	Fan/	Reg Adj Cont	Adjustment is impossible									
	Fan1/	Reg Max										
		Reg Min										
	Fan2/	Reg Max										
		Reg Min										
	Fan3/	Reg Max										
		Reg Min										
	Iris/	Iris Adj	0									
		Open Reg	0									
		Close Reg	255									
		Open Hall	Indication only									
		Close Hall	Indication only									

Note: There are nonadjustable items in accordance with the input signal.

∗1: Depends on the color system and the input terminal.

∗2: Depend on the input signal.

Memory Name									Remarks
	Channel Memory					Image Flip Memory		Fan Memory	
	Video	S Video	Input-A	Component	HDMI	Turn over to the upper and lower sides	No turn over to the upper and lower sides		
						Adjustment is impossible	Adjustment is impossible		
						Adjustment is impossible	Adjustment is impossible		
						Adjustment is impossible	Adjustment is impossible		
						Adjustment is impossible	Adjustment is impossible		
						Adjustment is impossible	Adjustment is impossible		
						Adjustment is impossible	Adjustment is impossible		
						Adjustment is impossible	Adjustment is impossible		
						Adjustment is impossible	Adjustment is impossible		
						Adjustment is impossible	Adjustment is impossible		
						Adjustment is impossible	Adjustment is impossible		
						Adjustment is impossible	Adjustment is impossible		
						Adjustment is impossible	Adjustment is impossible		
						Adjustment is impossible	Adjustment is impossible		
						Adjustment is impossible	Adjustment is impossible		
						Adjustment is impossible	Adjustment is impossible		
						Adjustment is impossible	Adjustment is impossible		
						Adjustment is impossible	Adjustment is impossible		
								Adjustment is impossible	
								Adjustment is impossible	
								Adjustment is impossible	
								Adjustment is impossible	
								Adjustment is impossible	
								Adjustment is impossible	

DeviceName	ItemName		Memory Name									
			Set Memory	Status Memory	Chroma Memory							
					NT358/NT443 /BW60	Pal/Pal-M/N/ Secam/BW50	15kRGB	Component (15k)	Two times speed Component	HDTV (YPbPr)	HDTV(GBR) Include two times speed	
I/P	Ip/	CTI Tap	3									
		CTI Shift	1									
		CTI Limit	128									
		CTI Gain	20									
		Sharp Limit	255									
		MD Thresh C	8									
		MD Thresh 0	16									
		VS	1									
		Continue	1									
		Edit Detect	0									
		Indicator	0									
		Manual	0									
		Manual Pair	0									
		Manual State	0									
		Field Times	2									
		Noise Thresh	4									
		Disp Area	0									
		VS Limit	64									
		VS Core	4									
		Hysteresis	1									
		Hysteresis Data	2									
		22 Pre Post Rate	15									
		22 Pre Post Thresh	2									
		Film Times 22	3									
		YNR On	0									
		CNR On	0									
	Ip2/	Sudare Rate 32	4									
		Sudare Thresh 32	64									
		Sudare Rate 22	4									
		Sudare Thresh 22	40									
		UV PhaseSel		∗2								

Note: There are nonadjustable items in accordance with the input signal.

∗1: Depends on the color system and the input terminal.

∗2: Depend on the input signal.

Memory Name									Remarks
	Channel Memory					Image Flip Memory		Fan Memory	
	Video	S Video	Input-A	Component	HDMI	Turn over to the upper and lower sides	No turn over to the upper and lower sides		

2-4. White Balance Adjustment on Servicing

2-4-1. Computer

Preparation

1. Set the unit from the menu as follows.
   Picture Mode: Cinema
   Adjust Picture
   Contrast: 80
   Brightness: 50
   Gamma Correction: OFF
   Cinema Black Pro:
   Iris Control: OFF
   Lamp Control: Low
2. Set each mode of “Color Temp:” as follows.
   Gain: 128
   Bias: 128
3. Set INPUT-A Signal Sel. to “Computer”.

Adjustment

1. Middle

1. Set “Color Temp:” to Middle.
2. Input WXGA 80IRE Window white (3 colors: RGB) to INPUT-A and adjust the GAIN of G of white balance so that the chromaticity (y80) is within specification.
   x80: 0.294 ± 0.002
   y80: 0.310 ± 0.003
   Then, set the reference color as follows and adjust the GAIN of colors other than the reference color of white balance so that the chromaticity (x80 and y80) is within specification.
   x80 ≧ 0.294: B reference
   y80 < 0.294: R reference
3. Input WXGA 20IRE Window white (3 colors: RGB) to INPUT-A and adjust the BIAS of colors other than G of white balance so that the chromaticity (x20 and y20) is within specification.
   x20: 0.294 ± 0.002
   y20: 0.310 ± 0.003
4. Input WXGA 80IRE Window white (3 colors: RGB) to INPUT-A and adjust the GAIN of colors other than the reference color of white balance so that the chromaticity (x80 and y80) is within specification.
5. Repeat steps 3 and 4, and adjust each GAIN and BIAS of RGB so that x and y are within the following specification.
   x: 0.294 ± 0.002
   y: 0.310 ± 0.003
6. Save the adjustment values.

2. High

1. Set “Color Temp:” to High.
2. Input WXGA 80IRE Window white (3 colors: RGB) to INPUT-A and adjust the GAIN of G of white balance so that the chromaticity (y80) is within specification.
   x80: 0.284 ± 0.002
   y80: 0.298 ± 0.003
   Then, set the reference color as follows and adjust the GAIN of colors other than the reference color of white balance so that the chromaticity (x80 and y80) is within specification.
   x80 ≧ 0.294: B reference
   y80 < 0.294: R reference
3. Input WXGA 20IRE Window white (3 colors: RGB) to INPUT-A and adjust the BIAS of colors other than G of white balance so that the chromaticity (x20 and y20) is within specification.
   x20: 0.294 ± 0.002
   y20: 0.310 ± 0.003
4. Input WXGA 80IRE Window white (3 colors: RGB) to INPUT-A and adjust the GAIN of colors other than the reference color of white balance so that the chromaticity (x80 and y80) is within specification.
5. Repeat steps 3 and 4, and adjust each GAIN and BIAS of RGB so that x and y are within the following specification.
   x: 0.284 ± 0.002
   y: 0.298 ± 0.003
6. Save the adjustment values.

3. Low

1. Set “Color Temp:” to Low.
2. Input WXGA 20IRE Window white (3 colors: RGB) to INPUT-A and adjust the BIAS of colors other than G of white balance so that the chromaticity (x20 and y20) is within specification.
   x20: 0.313 ± 0.002
   y20: 0.329 ± 0.003

3. Input WXGA 80IRE Window white (3 colors: RGB) to INPUT-A and adjust the GAIN of colors other than R of white balance so that the chromaticity (x80 and y80) is within specification.
4. Repeat steps 2 and 3, and adjust each GAIN and BIAS of RGB so that x and y are within the following specification.
   x: 0.313 ±0.002
   y: 0.329 ±0.003
5. Save the adjustment values.

4. Custom1/2/3

1. Copy the values adjusted in “1. Middle”,”2. High” and “3. Low” as follows.
   Custom1: High
   Custom2: Middle
   Custom3: Low
2. Save the adjustment values.

2-4-2. Video

Preparation

1. Set the unit from the menu as follows.
   Picture Mode: Cinema
   Adjust Picture
   Contrast: 80
   Brightness: 50
   Color: 50
   Hue: 50
   Sharpness: 50
   Black Level Adj.: OFF
   Gamma Correction: OFF
   Cinema Black Pro:
   Iris Control: OFF
   Lamp Control: Low
2. Set each mode of “Color Temp:” as follows.
   Gain: 150
   Bias: 127
3. Set INPUT-A Signal Sel. to “Component” or “Video GBR”.

Adjustment

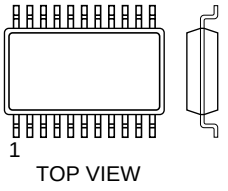
The adjustment procedures of “1. Middle”, ”2. High” and “3. Low” modes are the same as those in “2-4-1. Computer”.

Notes

- Use the two times speed Component or two times speed VideoGBR signal as the input signal according to step 3 in Preparation.
- Use the reference color of Middle and High same as that in “2-4-1. Computer”.

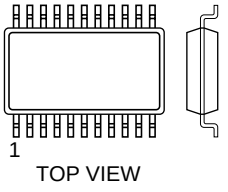
Section 3
Semiconductors

24LC128T-I/SN
24LC21AT/SN
BR24L02F-WE2
HN58X24256FPIZ
ICS342M-05LF
MM1115XFBE
NE57814DD.118
ST24FC21M6TR
TL431BCDR2



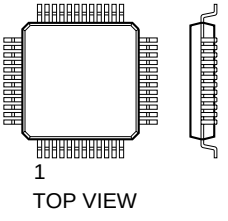
8PIN SOP

74VHC02MTCX
SN74LV00APWR
SN74LV125APWR
SN74LVC125APWR-12



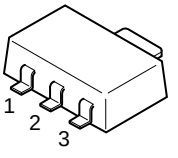
14PIN SSOP

AD9981KSTZ-110/05

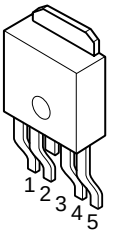


80PIN QFP

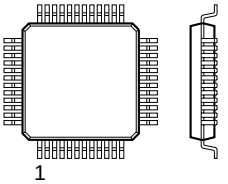
AIC1117A-18PYJTR
AIC1117A-25PEJTR
AIC1117A-33PEJTR
AIC1117A-50PEJTR
AIC1117A-PEJTR
LM1117MPX-1.8
TL431CPK-E2



BA00ASFP-E2
BA00BC0WFP

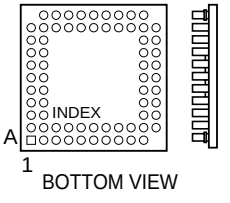


CXA7004R-T4
LC4032V-75TN48C-DLY2



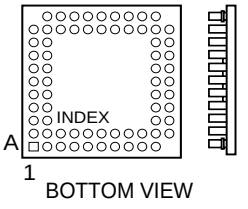
48PIN FQFP

CXD9760GP



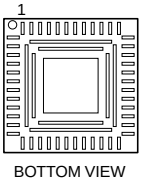
329PIN PBGA

CXD9809GF



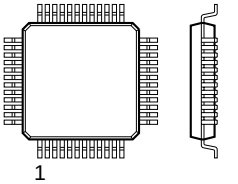
292PIN PBGA

DP83847ALQA56A/J5000283



56PIN LLP

HD64F2378VFQ34V



144PIN FQFP

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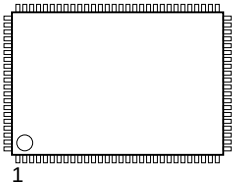

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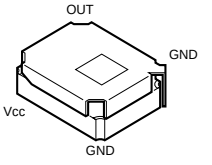

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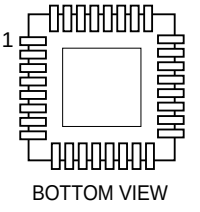

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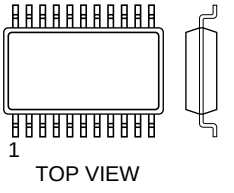

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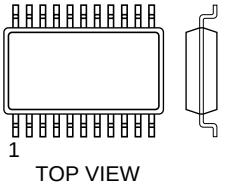

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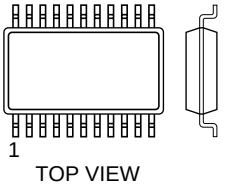

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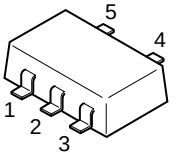

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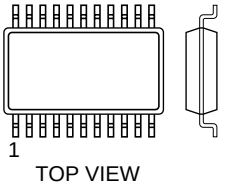

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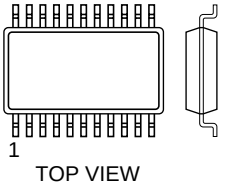

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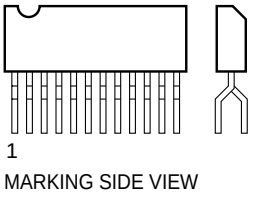

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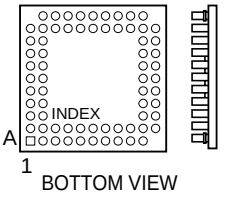

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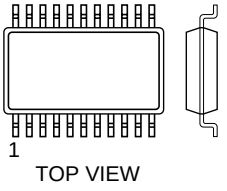

8PIN SSOP

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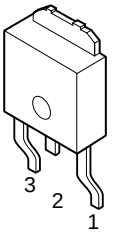

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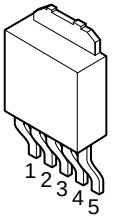

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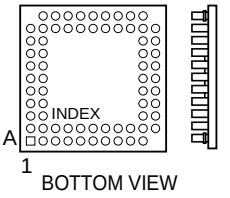

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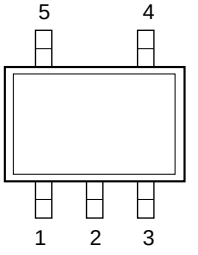

5PIN CHIP

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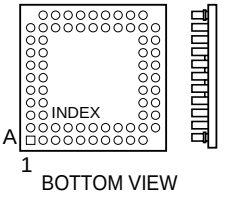

156PIN BGA

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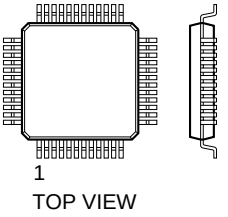

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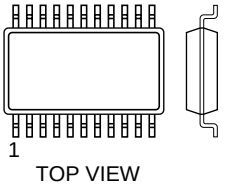

20PIN SSOP

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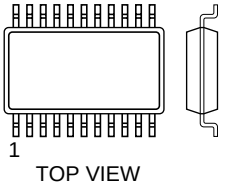

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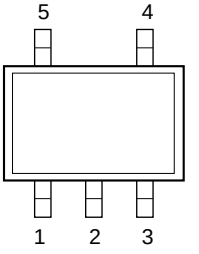

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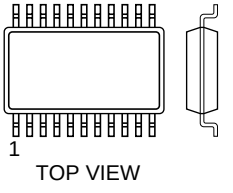

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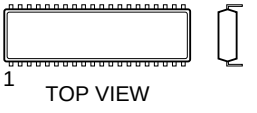

8PIN DIP

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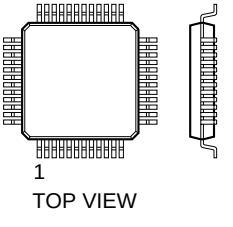

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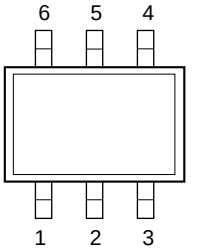

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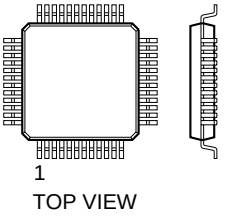

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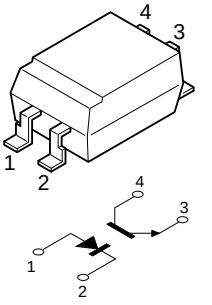

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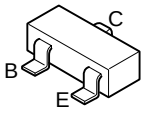

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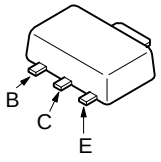

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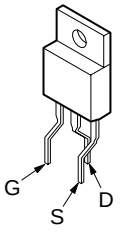

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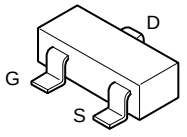

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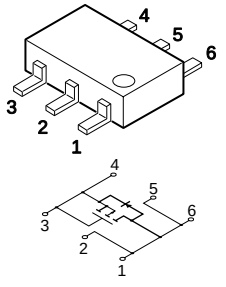

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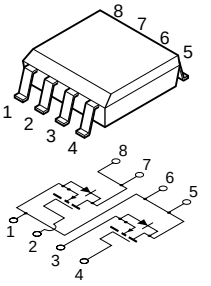

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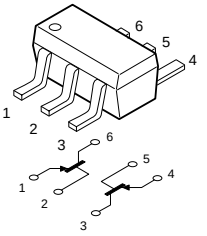

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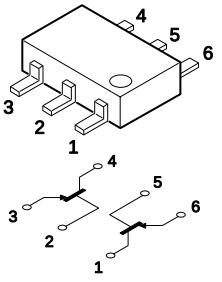

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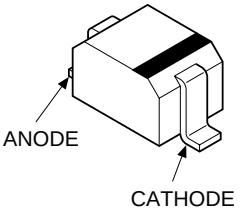

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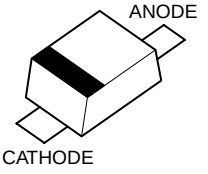

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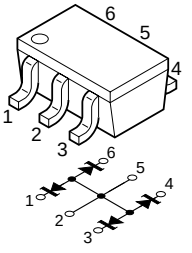

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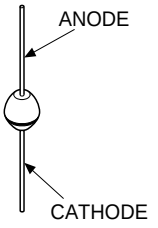

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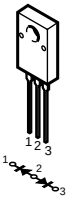

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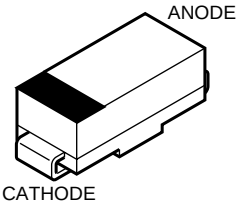
D2FS6-TA



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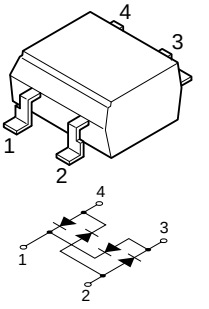

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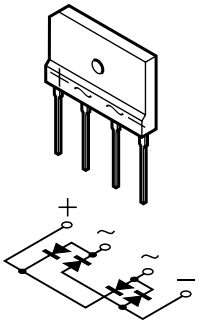

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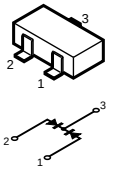

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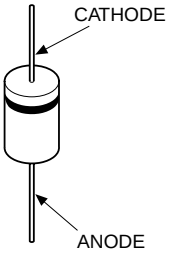

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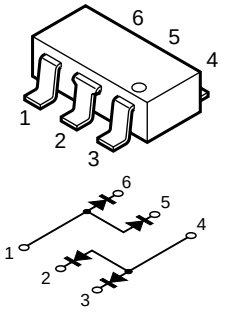

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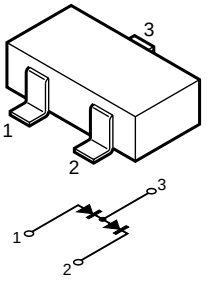

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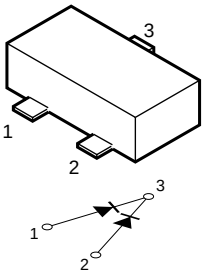

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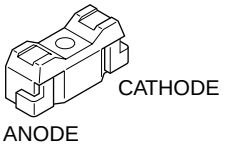
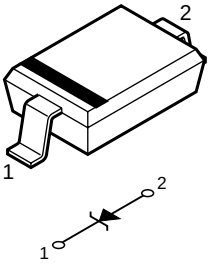
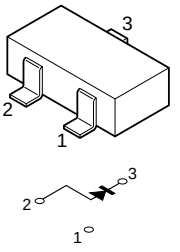


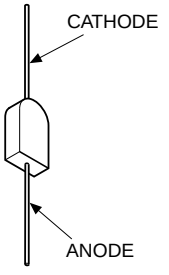
RD12SB-T1
RD3.9SB
RD3.9SB-T1
RD5.6SB-T1



RD18M-T1B1
RD33M-B
RD33M-T1B
RD7.5M-B2
RD7.5M-T1B



RM11C
RM11C-V1



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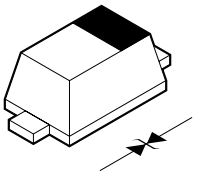
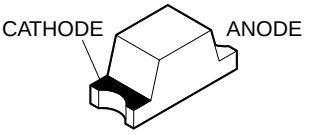
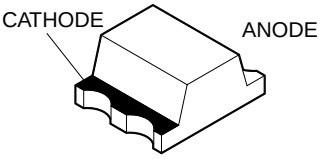


SEC1801C
SEC1901C



SEC2422C



Section 4
Spare Parts

4-1. Notes on Repair Parts

1. Safety Related Components Warning

WARNING

Components marked ⚠ are critical to safe operation. Therefore, specified parts should be used in the case of replacement.

2. Standardization of Parts

Some repair parts supplied by Sony differ from those used for the unit. These are because of parts commonality and improvement.
Parts list has the present standardized repair parts.

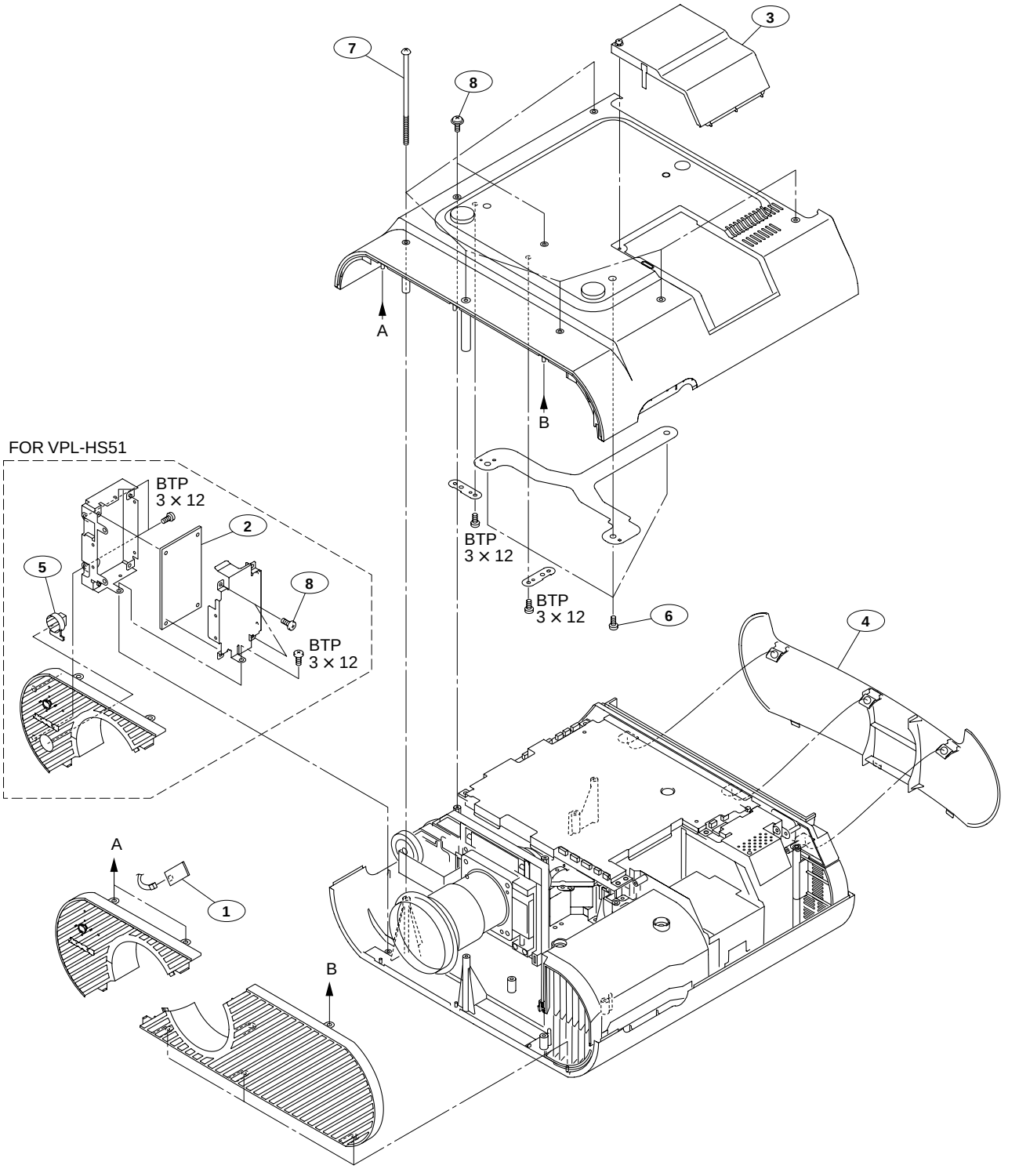
3. Stock of Parts

Parts marked with “o” at SP (Supply Code) column of the spare parts list may not be stocked. Therefore, the delivery date will be delayed.

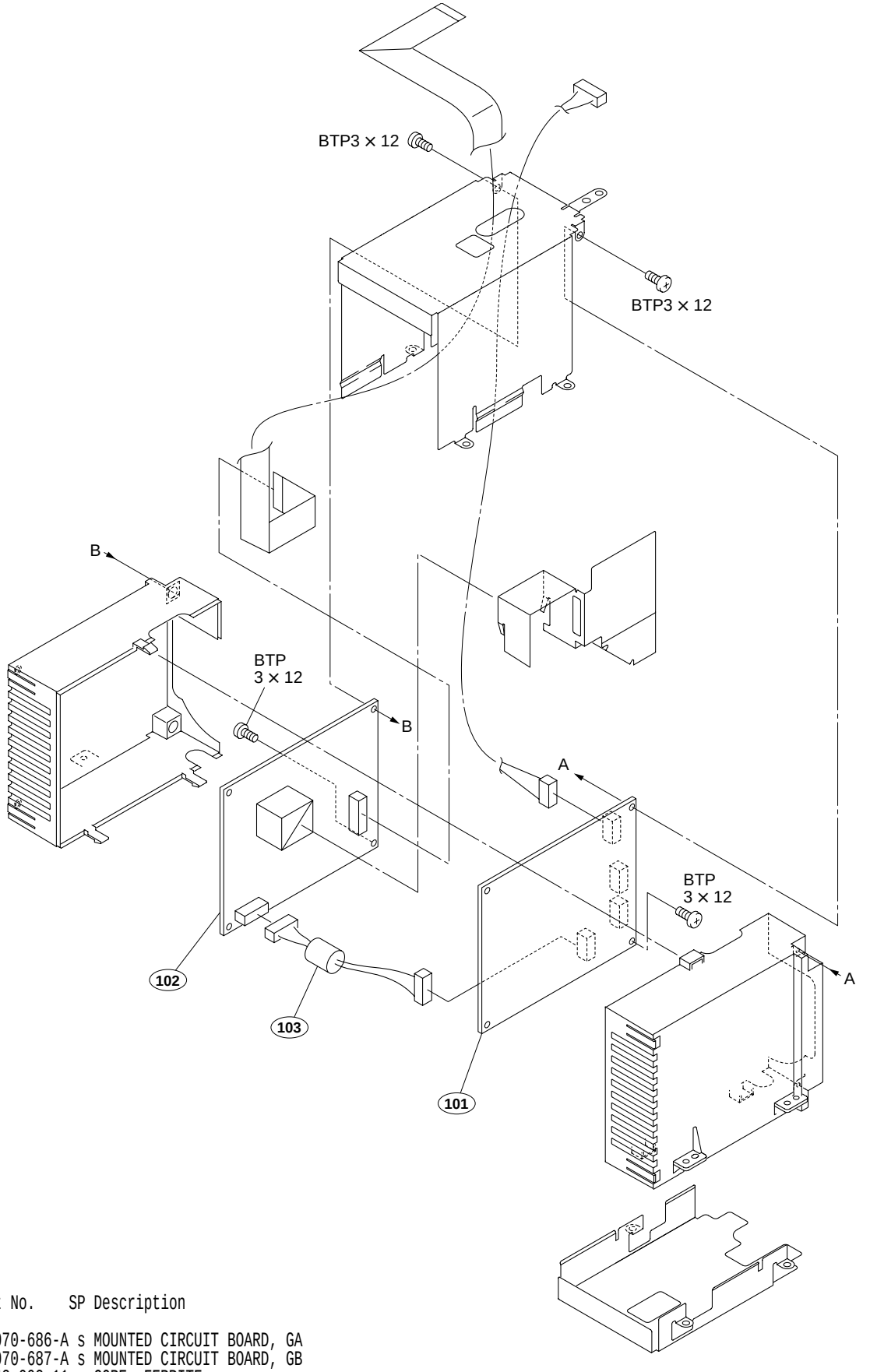
4. Harness

Harnesses with no part number are not registered as spare parts.
In need of repair, get components shown in the list and repair using them.

4-2. Exploded Views

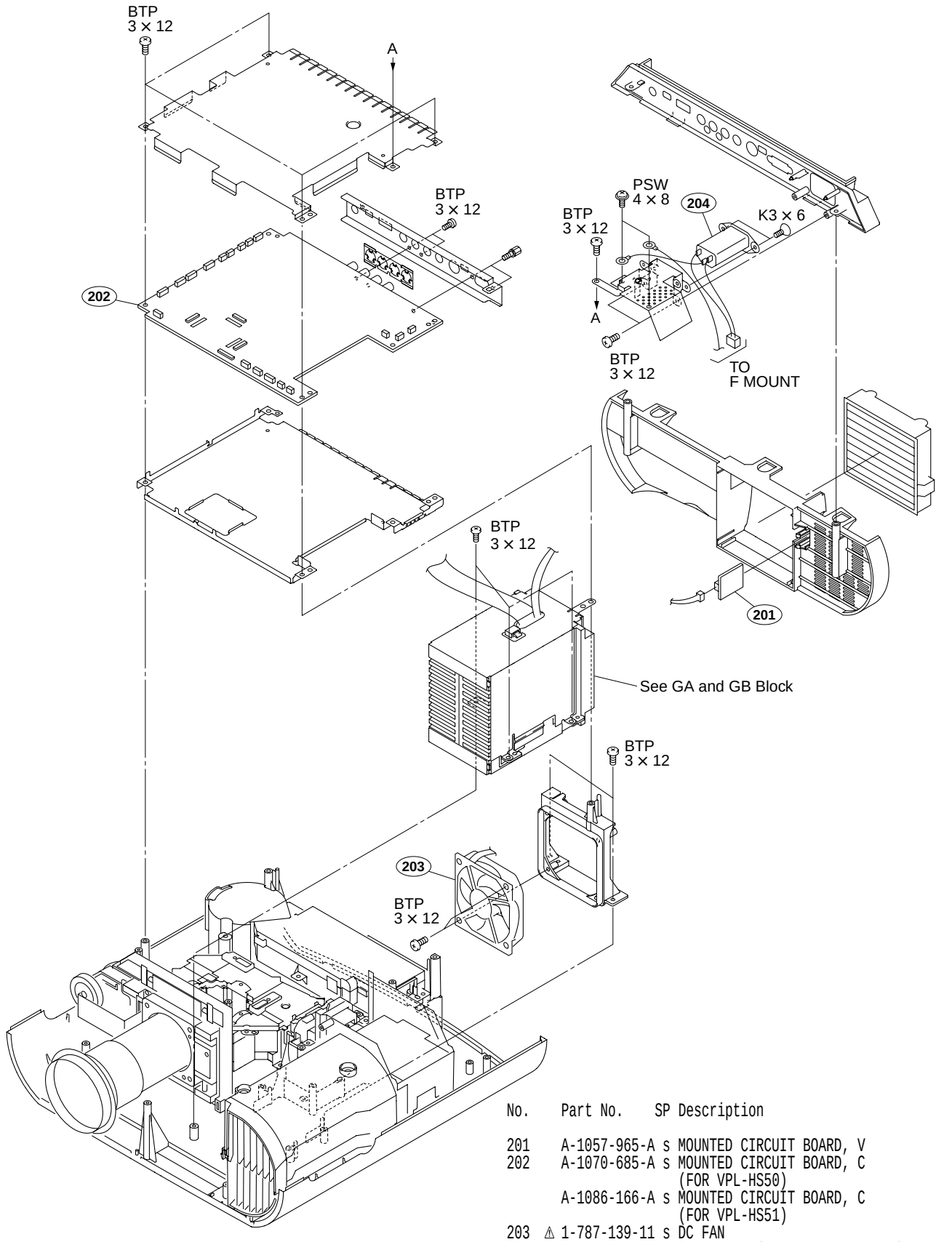


No.	Part No.	SP	Description
1	A-1057-960-A	s	NF MOUNT
2	A-1086-165-A	s	Q COMPL (FOR VPL-HS51)
3	⚠ X-2025-173-2	s	COVER ASSY, LAMP
4	⚠ 2-178-507-01	s	COVER, REAR
5	2-345-361-01	s	COVER, EITHER (FOR VPL-HS51)
6	4-091-838-02	s	SCREW M5X5, SPECIAL
7	4-099-122-02	s	SCREW +BV 3X70 TYPE 2, SPECIAL
8	4-382-854-01	s	SCREW (M3X8), P, SW (+) (FOR VPL-HS51)
	7-685-548-19	s	SCREW +BTP 3X12 TYPE2 N-S

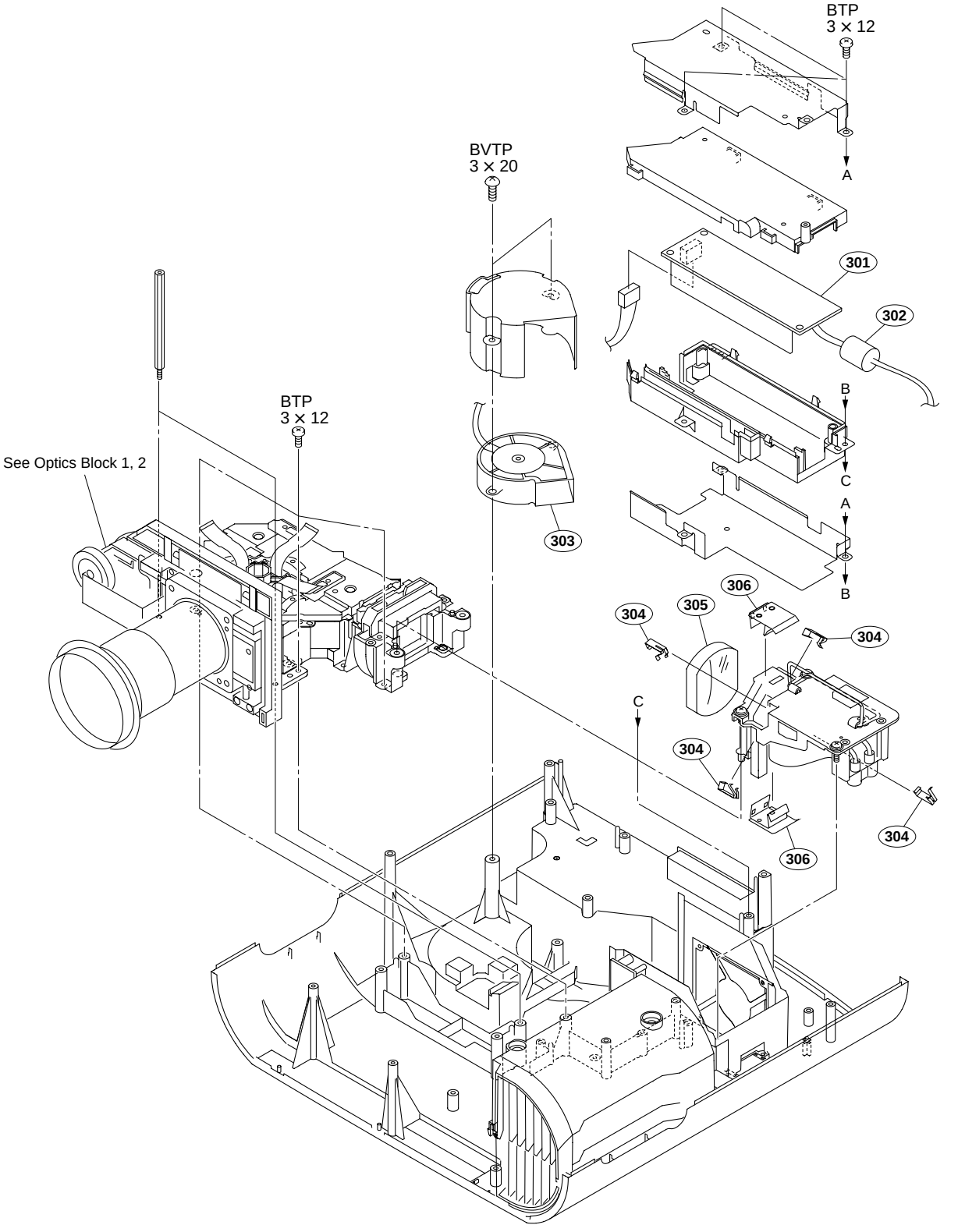


No.	Part No.	SP	Description
101	A-1070-686-A	s	MOUNTED CIRCUIT BOARD, GA
102	A-1070-687-A	s	MOUNTED CIRCUIT BOARD, GB
103	1-543-993-11	s	CORE, FERRITE
	7-685-548-19	s	SCREW +BTP 3X12 TYPE2 N-S

Main Board and Rear Block

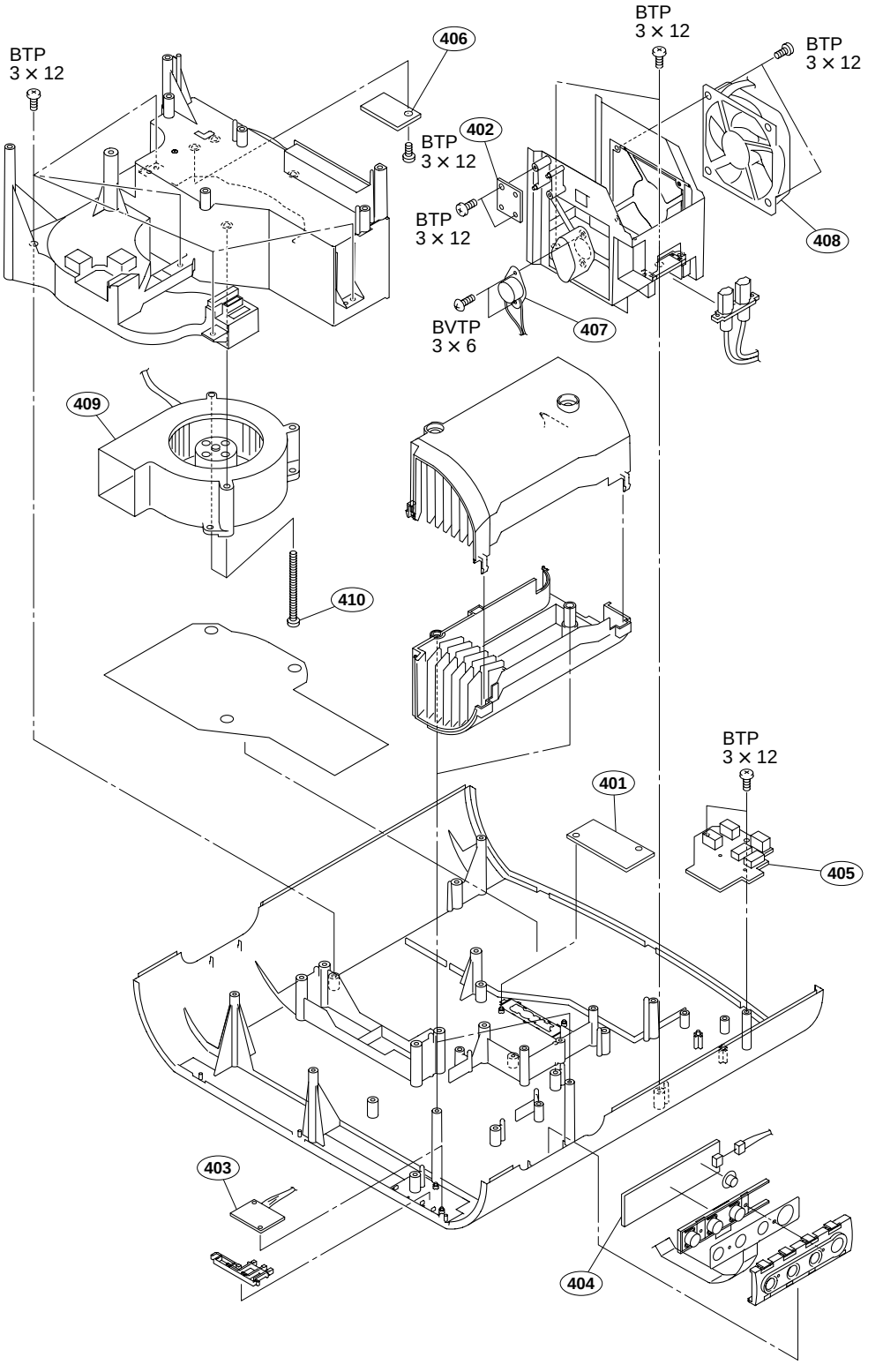


No.	Part No.	SP	Description
201	A-1057-965-A	s	MOUNTED CIRCUIT BOARD, V
202	A-1070-685-A	s	MOUNTED CIRCUIT BOARD, C (FOR VPL-HS50)
	A-1086-166-A	s	MOUNTED CIRCUIT BOARD, C (FOR VPL-HS51)
203	⚠ 1-787-139-11	s	DC FAN
204	⚠ 1-818-098-21	s	INLET, AC (WITH NOISE FILTER)
	7-682-247-09	s	SCREW +K 3X6
	7-682-961-01	s	SCREW +PSW 4X8
	7-685-548-19	s	SCREW +BTP 3X12 TYPE2 N-S



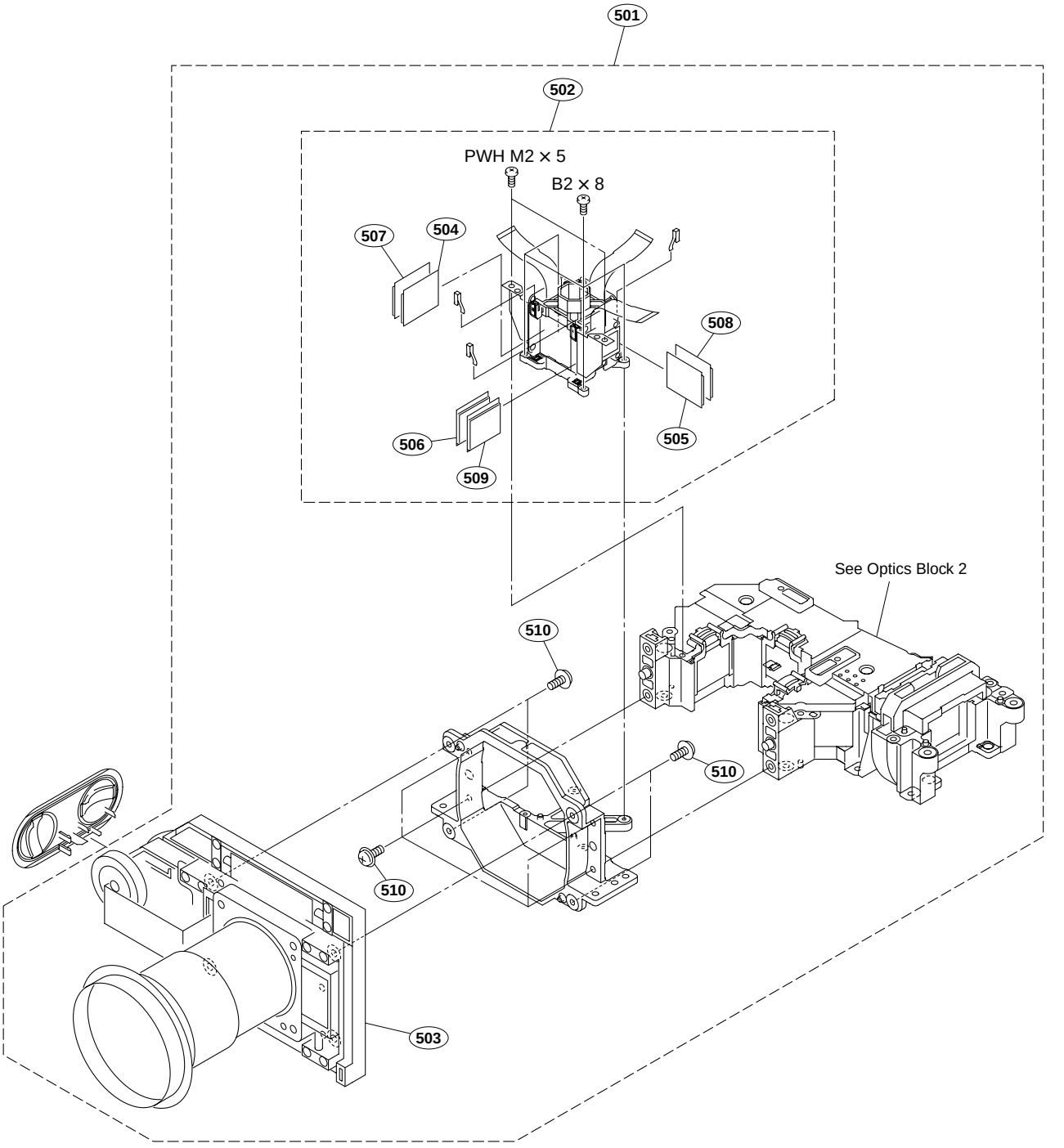
No.	Part No.	SP	Description
301	⚠ 1-468-866-11	s	LAMP POWER SUPPLY BLOCK
302	1-543-993-11	s	CORE, FERRITE
303	⚠ 1-787-149-11	s	D.C. FAN (SIROCCO)
304	4-089-523-01	s	SPRING, LAMP
305	4-089-560-02	s	LENS, CONCAVE
306	4-099-076-02	s	SPRING, CONCAVE
	7-685-548-19	s	SCREW +BTP 3X12 TYPE2 N-S
	7-685-651-79	s	SCREW +BVTP 3X20 TYPE2 IT-3

Top Panel Block



No.	Part No.	SP	Description
401	A-1057-962-A	s	MOUNTED CIRCUIT BOARD, L
402	A-1057-964-A	s	MOUNTED CIRCUIT BOARD, U
403	A-1057-969-A	s	MOUNTED CIRCUIT BOARD, HA
404	A-1057-970-A	s	MOUNTED CIRCUIT BOARD, HB
405	A-1076-324-A	s	MOUNTED CIRCUIT BOARD, F

No.	Part No.	SP	Description
406	A-1086-806-A	s	MOUNTED CIRCUIT BOARD, TA
407	⚠ 1-576-701-21	s	THERMOSTAT
408	⚠ 1-787-139-11	s	DC FAN
409	⚠ 1-787-231-21	s	D.C. FAN (SIROCCO)
410	2-348-149-01	s	TAPPING SCREW +PTP 4X45
	7-685-548-19	s	SCREW +BTP 3X12 TYPE2 N-S
	7-685-645-79	s	SCREW +BVTP 3X6 TYPE2 IT-3

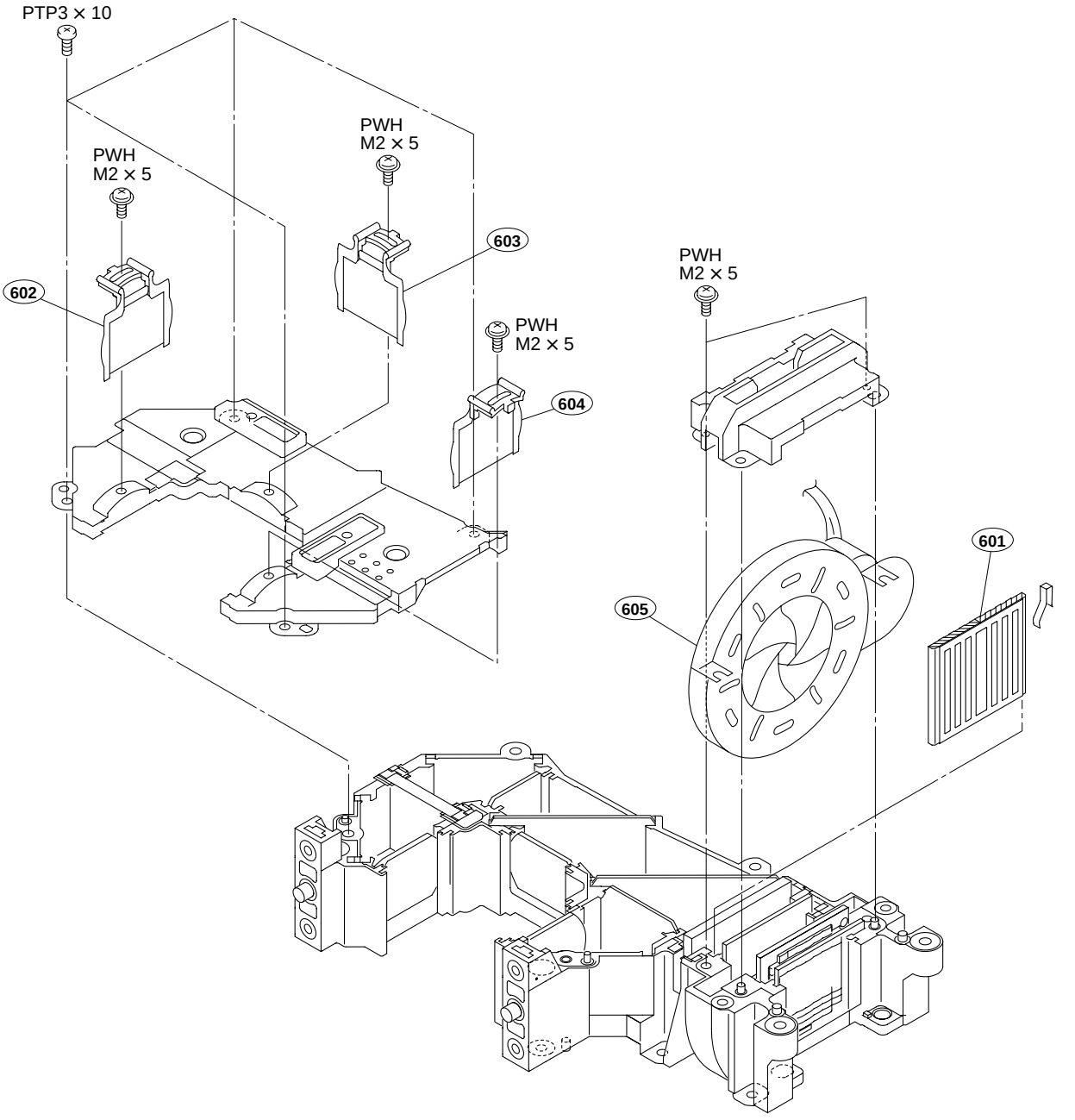


No.	Part No.	SP	Description
501	A-1094-996-A	s	OPT UNIT ASSY
502	A-1094-998-A	s	PRISM BLOCK ASSY
503	A-1095-000-A	s	PROJECTION LENS ASSY (ZOOM RING)
504	A-1095-038-A	s	PANEL (R) ASSY, OUT-POLARIZER
505	A-1095-039-A	s	PANEL (G) ASSY, OUT-PRE-POLARIZER
506	A-1095-040-A	s	PANEL (B) ASSY, OUT-PRE-POLARIZER
507	2-024-625-01	s	PLATE, WV-FILM(1)
	2-024-626-01	s	PLATE, WV-FILM(2)
508	2-024-625-11	s	PLATE, WV-FILM(1)
	2-024-626-11	s	PLATE, WV-FILM(2)
509	2-024-625-21	s	PLATE, WV-FILM(1)
	2-024-626-21	s	PLATE, WV-FILM(2)
510	4-382-854-11	s	SCREW (M3X10), P, SW (+)

WV-FILM PLATE to be used varies depending on the combination with the panels. Refer to 1-5-6. Disassembly for the combination with the panels.

No.	Part No.	SP	Description
	7-621-772-40	s	SCREW +B 2X8
	7-681-000-00	s	SCREW +PWH M2X5

Optics Block 2



No.	Part No.	SP	Description
601	A-1095-034-A	s	PS ASSY
602	A-1095-035-A	s	PANEL (R) ASSY, IN-POLARIZER
603	A-1095-036-A	s	PANEL (G) ASSY, IN-POLARIZER
604	A-1095-037-A	s	PANEL (B) ASSY, IN-POLARIZER
605	1-788-185-11	s	IRIS UNIT
	7-681-000-00	s	SCREW +PWH M2X5
	7-685-147-21	s	SCREW +P 3X10 TYPE2 SLIT

4-3. Electrical Parts List

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C BOARD
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*1:[VPL-HS50]
*2:[VPL-HS51]

 Ref. No.
 or Q'ty  Part No.    SP Description

 1pc   *1 A-1070-685-A s MOUNTED CIRCUIT BOARD, C
 1pc   *2 A-1086-166-A s MOUNTED CIRCUIT BOARD, C

 C100     1-126-205-11 s ELE CT CHIP   47UF 20.00% 6.3V
 C103     1-107-820-11 s CERAMIC CHIP 0.1UF 16V
 C106     1-107-820-11 s CERAMIC CHIP 0.1UF 16V
 C200  *2 1-165-908-11 s CERAMIC CHIP 1UF 10% 10V
 C201  *2 1-119-667-11 s CERAMIC CHIP 22UF 10V

 C202  *2 1-164-862-11 s CERAMIC CHIP 33PF 5.00% 50V
 C203  *2 1-164-862-11 s CERAMIC CHIP 33PF 5.00% 50V
 C204     1-107-820-11 s CERAMIC CHIP 0.1UF 16V
 C205  *2 1-107-820-11 s CERAMIC CHIP 0.1UF 16V
 C206  *2 1-164-943-11 s CERAMIC CHIP 0.01UF 10.00% 16V

 C207  *2 1-107-820-11 s CERAMIC CHIP 0.1UF 16V
 C208     1-107-820-11 s CERAMIC CHIP 0.1UF 16V
 C209     1-107-820-11 s CERAMIC CHIP 0.1UF 16V
 C400     1-126-205-11 s ELECT CHIP   47UF 20.00% 6.3V
 C401     1-107-820-11 s CERAMIC CHIP 0.1UF 16V

 C402     1-107-820-11 s CERAMIC CHIP 0.1UF 16V
 C403     1-125-777-11 s CERAMIC CHIP 0.1UF 10.00% 10V
 C404     1-107-820-11 s CERAMIC CHIP 0.1UF 16V
 C405     1-126-209-11 s ELECT CHIP   100UF 20.00% 4V
 C406     1-107-820-11 s CERAMIC CHIP 0.1UF 16V

 C407     1-126-209-11 s ELECT CHIP   100UF 20.00% 4V
 C408     1-107-820-11 s CERAMIC CHIP 0.1UF 16V
 C409     1-107-820-11 s CERAMIC CHIP 0.1UF 16V
 C410     1-126-209-11 s ELECT CHIP   100UF 20.00% 4V
 C411     1-135-834-91 s CERAMIC CHIP 2.2E+06PF 6.3V

 C412     1-126-209-11 s ELECT CHIP   100UF 20.00% 4V
 C413     1-107-820-11 s CERAMIC CHIP 0.1UF 16V
 C414     1-126-209-11 s ELECT CHIP   100UF 20.00% 4V
 C415     1-162-970-11 s CERAMIC CHIP 0.01UF 10.00% 25V
 C416     1-107-820-11 s CERAMIC CHIP 0.1UF 16V

 C417     1-107-820-11 s CERAMIC CHIP 0.1UF 16V
 C418     1-164-943-11 s CERAMIC CHIP 0.01UF 10.00% 16V
 C419     1-107-820-11 s CERAMIC CHIP 0.1UF 16V
 C420     1-107-820-11 s CERAMIC CHIP 0.1UF 16V
 C421     1-119-923-11 s CERAMIC CHIP 0.047UF 10.00% 10V

 C422     1-164-943-11 s CERAMIC CHIP 0.01UF 10.00% 16V
 C423     1-137-710-11 s CERAMIC CHIP 10UF 20%    6.3V
 C424     1-164-943-11 s CERAMIC CHIP 0.01UF 10.00% 16V
 C425     1-164-943-11 s CERAMIC CHIP 0.01UF 10.00% 16V
 C426     1-164-943-11 s CERAMIC CHIP 0.01UF 10.00% 16V

 C427     1-107-820-11 s CERAMIC CHIP 0.1UF 16V
 C428     1-107-820-11 s CERAMIC CHIP 0.1UF 16V
 C429     1-107-820-11 s CERAMIC CHIP 0.1UF 16V
 C430     1-164-505-11 s CERAMIC CHIP 2.2UF 16V
 C432     1-107-820-11 s CERAMIC CHIP 0.1UF 16V

 C433     1-126-209-11 s ELECT CHIP   100UF 20.00% 4V
 C500     1-125-777-11 s CERAMIC CHIP 0.1UF  10.00% 10V
 C501     1-164-392-11 s CERAMIC CHIP 390PF 5.00%  50V
 C503     1-164-858-11 s CERAMIC CHIP 22PF 5.00%  50V
 C504     1-164-858-11 s CERAMIC CHIP 22PF 5.00%  50V

 C506     1-164-939-11 s CERAMIC CHIP 0.0022UF 10.00% 50V
 C507     1-125-777-11 s CERAMIC CHIP 0.1UF  10.00% 10V
 C508     1-107-820-11 s CERAMIC CHIP 0.1UF 16V
 C509     1-126-208-21 s ELECT CHIP   47UF  20.00% 4V
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(C BOARD)

 Ref. No.
 or Q'ty  Part No.    SP Description

 C510     1-125-777-11 s CERAMIC CHIP 0.1UF  10.00% 10V
 C511     1-107-820-11 s CERAMIC CHIP 0.1UF 16V
 C512     1-125-777-11 s CERAMIC CHIP 0.1UF  10.00% 10V
 C513     1-126-209-11 s ELECT CHIP   100UF 20.00% 4V
 C514     1-107-820-11 s CERAMIC CHIP 0.1UF 16V

 C515     1-125-777-11 s CERAMIC CHIP 0.1UF  10.00% 10V
 C516     1-107-820-11 s CERAMIC CHIP 0.1UF 16V
 C517     1-126-206-11 s ELECT CHIP   100UF 20.00% 6.3V
 C518     1-125-777-11 s CERAMIC CHIP 0.1UF  10.00% 10V
 C519     1-165-908-11 s CERAMIC CHIP 1UF 10%    10V

 C520     1-107-820-11 s CERAMIC CHIP 0.1UF 16V
 C521     1-107-820-11 s CERAMIC CHIP 0.1UF 16V
 C522     1-137-710-11 s CERAMIC CHIP 10UF 20%    6.3V
 C523     1-126-208-21 s ELECT CHIP   47UF  20.00% 4V
 C524     1-107-820-11 s CERAMIC CHIP 0.1UF 16V

 C525     1-107-820-11 s CERAMIC CHIP 0.1UF 16V
 C526     1-107-820-11 s CERAMIC CHIP 0.1UF 16V
 C527     1-126-209-11 s ELECT CHIP   100UF 20.00% 4V
 C528     1-125-777-11 s CERAMIC CHIP 0.1UF  10.00% 10V
 C529     1-125-777-11 s CERAMIC CHIP 0.1UF  10.00% 10V

 C530     1-125-777-11 s CERAMIC CHIP 0.1UF  10.00% 10V
 C531     1-125-777-11 s CERAMIC CHIP 0.1UF  10.00% 10V
 C532     1-125-777-11 s CERAMIC CHIP 0.1UF  10.00% 10V
 C533     1-125-777-11 s CERAMIC CHIP 0.1UF  10.00% 10V
 C534     1-126-205-11 s ELECT CHIP   47UF  20.00% 6.3V

 C535     1-125-777-11 s CERAMIC CHIP 0.1UF  10.00% 10V
 C536     1-125-777-11 s CERAMIC CHIP 0.1UF  10.00% 10V
 C537     1-126-246-11 s ELECT CHIP   220UF 20.00% 4V
 C538     1-164-858-11 s CERAMIC CHIP 22PF 5.00%  50V
 C539     1-128-013-11 s ELECT CHIP   1UF   20.00% 50V

 C540     1-128-004-11 s ELECT CHIP   10UF  20.00% 16V
 C541     1-164-854-11 s CERAMIC CHIP 15PF 5.00%  50V
 C542     1-164-854-11 s CERAMIC CHIP 15PF 5.00%  50V
 C543     1-164-935-11 s CERAMIC CHIP 470PF  10.00% 50V
 C544     1-107-820-11 s CERAMIC CHIP 0.1UF 16V

 C545     1-128-013-11 s ELECT CHIP   1UF   20.00% 50V
 C546     1-126-206-11 s ELECT CHIP   100UF 20.00% 6.3V
 C547     1-164-854-11 s CERAMIC CHIP 15PF 5.00%  50V
 C548     1-115-339-11 s CERAMIC CHIP 0.1UF  10.00% 50V
 C549     1-128-004-11 s ELECT CHIP   10UF  20.00% 16V

 C550     1-164-505-11 s CERAMIC CHIP 2.2UF 16V
 C551     1-126-204-11 s ELECT CHIP   47UF  20.00% 16V
 C552     1-164-854-11 s CERAMIC CHIP 15PF 5.00%  50V
 C553     1-164-156-11 s CERAMIC CHIP 0.1UF 25V
 C554     1-117-681-11 s ELECT CHIP   100UF 20.00% 16V

 C555     1-128-390-11 s ELECT CHIP   220UF 20%    6.3V
 C556     1-128-013-11 s ELECT CHIP   1UF   20.00% 50V
 C557     1-128-004-11 s ELECT CHIP   10UF  20.00% 16V
 C558     1-164-943-11 s CERAMIC CHIP 0.01UF 10.00% 16V
 C600     1-164-854-11 s CERAMIC CHIP 15PF 5.00%  50V

 C601     1-119-923-11 s CERAMIC CHIP 0.047UF 10.00% 10V
 C602     1-164-854-11 s CERAMIC CHIP 15PF 5.00%  50V
 C603     1-107-820-11 s CERAMIC CHIP 0.1UF 16V
 C604     1-107-820-11 s CERAMIC CHIP 0.1UF 16V
 C605     1-107-820-11 s CERAMIC CHIP 0.1UF 16V

 C606     1-107-820-11 s CERAMIC CHIP 0.1UF 16V
 C607     1-107-820-11 s CERAMIC CHIP 0.1UF 16V
 C608     1-107-820-11 s CERAMIC CHIP 0.1UF 16V
 C609     1-126-206-11 s ELECT CHIP   100UF 20.00% 6.3V
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(C BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
C611	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C612	1-119-923-11	s	CERAMIC CHIP 0.047UF 10.00% 10V
C613	1-119-923-11	s	CERAMIC CHIP 0.047UF 10.00% 10V
C614	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C615	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C616	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C617	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C618	1-119-923-11	s	CERAMIC CHIP 0.047UF 10.00% 10V
C619	1-119-667-11	s	CERAMIC CHIP 22UF 10V
C620	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C621	1-126-209-11	s	ELECT CHIP 100UF 20.00% 4V
C622	1-119-923-11	s	CERAMIC CHIP 0.047UF 10.00% 10V
C623	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C624	1-119-923-11	s	CERAMIC CHIP 0.047UF 10.00% 10V
C626	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C627	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C628	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C629	1-126-209-11	s	ELECT CHIP 100UF 20.00% 4V
C630	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C631	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C632	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C633	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C634	1-164-937-11	s	CERAMIC CHIP 0.001UF 10.00% 50V
C635	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C636	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C637	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C638	1-119-667-11	s	CERAMIC CHIP 22UF 10V
C639	1-119-923-11	s	CERAMIC CHIP 0.047UF 10.00% 10V
C640	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C641	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C642	1-119-923-11	s	CERAMIC CHIP 0.047UF 10.00% 10V
C643	1-119-923-11	s	CERAMIC CHIP 0.047UF 10.00% 10V
C644	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C645	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C646	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C647	1-119-923-11	s	CERAMIC CHIP 0.047UF 10.00% 10V
C648	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C649	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C650	1-119-923-11	s	CERAMIC CHIP 0.047UF 10.00% 10V
C651	1-126-209-11	s	ELECT CHIP 100UF 20.00% 4V
C700	1-104-760-11	s	CERAMIC CHIP 0.047UF 10.00% 50V
C701	1-104-760-11	s	CERAMIC CHIP 0.047UF 10.00% 50V
C702	1-127-573-11	s	CERAMIC CHIP 1UF 10% 16V
C703	1-104-760-11	s	CERAMIC CHIP 0.047UF 10.00% 50V
C704	1-164-937-11	s	CERAMIC CHIP 0.001UF 10.00% 50V
C705	1-104-760-11	s	CERAMIC CHIP 0.047UF 10.00% 50V
C706	1-164-937-11	s	CERAMIC CHIP 0.001UF 10.00% 50V
C707	1-104-760-11	s	CERAMIC CHIP 0.047UF 10.00% 50V
C708	1-104-760-11	s	CERAMIC CHIP 0.047UF 10.00% 50V
C709	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C710	1-126-206-11	s	ELECT CHIP 100UF 20.00% 6.3V
C711	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C712	1-125-777-11	s	CERAMIC CHIP 0.1UF 10.00% 10V
C713	1-124-778-00	s	ELECT CHIP 22UF 20.00% 6.3V
C714	1-125-777-11	s	CERAMIC CHIP 0.1UF 10.00% 10V
C715	1-125-777-11	s	CERAMIC CHIP 0.1UF 10.00% 10V
C716	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C717	1-125-777-11	s	CERAMIC CHIP 0.1UF 10.00% 10V
C718	1-125-777-11	s	CERAMIC CHIP 0.1UF 10.00% 10V

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Ref. No. or Q'ty	Part No.	SP	Description
C719	1-119-667-11	s	CERAMIC CHIP 22UF 10V
C720	1-137-710-11	s	CERAMIC CHIP 10UF 20% 6.3V
C721	1-137-710-11	s	CERAMIC CHIP 10UF 20% 6.3V
C722	1-137-710-11	s	CERAMIC CHIP 10UF 20% 6.3V
C723	1-125-777-11	s	CERAMIC CHIP 0.1UF 10.00% 10V
C724	1-117-614-81	s	CERAMIC CHIP 8200PF 10.00% 16V
C725	1-125-777-11	s	CERAMIC CHIP 0.1UF 10.00% 10V
C726	1-125-777-11	s	CERAMIC CHIP 0.1UF 10.00% 10V
C727	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C728	1-125-777-11	s	CERAMIC CHIP 0.1UF 10.00% 10V
C729	1-125-777-11	s	CERAMIC CHIP 0.1UF 10.00% 10V
C730	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C731	1-125-777-11	s	CERAMIC CHIP 0.1UF 10.00% 10V
C732	1-125-777-11	s	CERAMIC CHIP 0.1UF 10.00% 10V
C733	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C800	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C801	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C802	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C803	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C804	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C805	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C900	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C901	1-115-566-11	s	CERAMIC CHIP 4.7UF 10.00% 10V
C902	1-115-566-11	s	CERAMIC CHIP 4.7UF 10.00% 10V
C903	1-115-566-11	s	CERAMIC CHIP 4.7UF 10.00% 10V
C904	1-164-933-11	s	CERAMIC CHIP 220PF 10.00% 50V
C905	1-165-908-11	s	CERAMIC CHIP 1UF 10% 10V
C906	1-164-866-11	s	CERAMIC CHIP 47PF 5.00% 50V
C907	1-164-866-11	s	CERAMIC CHIP 47PF 5.00% 50V
C908	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C909	1-125-777-11	s	CERAMIC CHIP 0.1UF 10.00% 10V
C910	1-165-908-11	s	CERAMIC CHIP 1UF 10% 10V
C911	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C912	1-164-937-11	s	CERAMIC CHIP 0.001UF 10.00% 50V
C913	1-165-908-11	s	CERAMIC CHIP 1UF 10% 10V
C914	1-115-339-11	s	CERAMIC CHIP 0.1UF 10.00% 50V
C915	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C916	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C917	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C918	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C919	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C920	1-126-206-11	s	ELECT CHIP 100UF 20.00% 6.3V
C921	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C922	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C923	1-165-908-11	s	CERAMIC CHIP 1UF 10% 10V
C924	1-165-908-11	s	CERAMIC CHIP 1UF 10% 10V
C925	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C926	1-165-908-11	s	CERAMIC CHIP 1UF 10% 10V
C927	1-126-206-11	s	ELECT CHIP 100UF 20.00% 6.3V
C928	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C929	1-165-908-11	s	CERAMIC CHIP 1UF 10% 10V
C930	1-164-850-11	s	CERAMIC CHIP 10PF 0.50PF 50V
C931	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C932	1-164-866-11	s	CERAMIC CHIP 47PF 5.00% 50V
C933	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C934	1-164-866-11	s	CERAMIC CHIP 47PF 5.00% 50V
C935	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C937	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C938	1-165-908-11	s	CERAMIC CHIP 1UF 10% 10V

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Ref. No. or Q'ty	Part No.	SP	Description
C939	1-165-908-11	s	CERAMIC CHIP 1UF 10% 10V
C1000	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1001	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1102	1-137-710-11	s	CERAMIC CHIP 10UF 20% 6.3V
C1103	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1106	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1107	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1108	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1109	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1110	1-100-421-21	s	ELECT CHIP 220UF 20% 6.3V
C1111	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1112	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1113	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1114	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1115	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1116	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1117	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1118	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C1119	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C1120	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C1121	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C1122	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C1128	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1129	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1132	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1133	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C1134	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C1135	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C1136	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1137	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C1138	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1139	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C1140	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1141	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C1142	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1145	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C1146	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C1147	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C1148	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C1149	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C1153	1-137-710-11	s	CERAMIC CHIP 10UF 20% 6.3V
C1154	1-137-710-11	s	CERAMIC CHIP 10UF 20% 6.3V
C1155	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1200	1-126-205-11	s	ELECT CHIP 47UF 20.00% 6.3V
C1201	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1202	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C1203	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1204	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C1205	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1206	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C1207	1-126-205-11	s	ELECT CHIP 47UF 20.00% 6.3V
C1208	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1209	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C1211	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1213	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C1218	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C1219	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1220	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C1221	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V

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Ref. No. or Q'ty	Part No.	SP	Description
C1222	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C1223	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1224	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C1225	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1226	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C1227	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1228	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C1229	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1230	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C1231	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1232	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C1233	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1234	1-126-206-11	s	ELECT CHIP 100UF 20.00% 6.3V
C1237	1-126-206-11	s	ELECT CHIP 100UF 20.00% 6.3V
C1239	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C1240	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1241	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C1242	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1243	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C1244	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1245	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C1246	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1247	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1248	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C1249	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1250	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C1251	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1252	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C1253	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1254	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C1255	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1256	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C1257	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1258	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C1259	1-119-667-11	s	CERAMIC CHIP 22UF 10V
C1300	1-119-667-11	s	CERAMIC CHIP 22UF 10V
C1301	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1306	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1307	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C1308	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1309	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C1310	1-126-205-11	s	ELECT CHIP 47UF 20.00% 6.3V
C1311	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1312	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C1313	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1314	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1315	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C1316	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1317	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C1318	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1319	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1320	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C1321	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1322	1-125-777-11	s	CERAMIC CHIP 0.1UF 10.00% 10V
C1323	1-119-667-11	s	CERAMIC CHIP 22UF 10V
C1324	1-164-852-11	s	CERAMIC CHIP 12PF 5.00% 50V
C1325	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1326	1-164-852-11	s	CERAMIC CHIP 12PF 5.00% 50V
C1327	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V

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Ref. No. or Q'ty	Part No.	SP	Description
C1328	1-119-667-11	s	CERAMIC CHIP 22UF 10V
C1329	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C1330	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1331	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1332	1-125-777-11	s	CERAMIC CHIP 0.1UF 10.00% 10V
C1333	1-125-777-11	s	CERAMIC CHIP 0.1UF 10.00% 10V
C1334	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C1335	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1336	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C1337	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1338	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C1339	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1340	1-119-667-11	s	CERAMIC CHIP 22UF 10V
C1341	1-125-777-11	s	CERAMIC CHIP 0.1UF 10.00% 10V
C1342	1-119-667-11	s	CERAMIC CHIP 22UF 10V
C1343	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1344	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C1345	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1346	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C1347	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1348	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C1349	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1350	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C1351	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1352	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C1400	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1401	1-126-205-11	s	ELECT CHIP 47UF 20.00% 6.3V
C1402	1-125-777-11	s	CERAMIC CHIP 0.1UF 10.00% 10V
C1403	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C1404	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1405	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C1406	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C1407	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C1408	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1409	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C1410	1-164-947-11	s	CERAMIC CHIP 0.01UF 50V
C1411	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1412	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C1413	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1414	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C1415	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C1416	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C1417	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1418	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C1419	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C1420	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1421	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1422	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C1423	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C1424	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1425	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1426	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C1427	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1428	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C1500	1-125-777-11	s	CERAMIC CHIP 0.1UF 10.00% 10V
C1501	1-126-205-11	s	ELECT CHIP 47UF 20.00% 6.3V
C1503	1-165-908-11	s	CERAMIC CHIP 1UF 10% 10V
C1505	1-165-908-11	s	CERAMIC CHIP 1UF 10% 10V
C1506	1-115-339-11	s	CERAMIC CHIP 0.1UF 10.00% 50V

(C BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
C1507	1-115-339-11	s	CERAMIC CHIP 0.1UF 10.00% 50V
C1510	1-115-339-11	s	CERAMIC CHIP 0.1UF 10.00% 50V
C1511	1-115-339-11	s	CERAMIC CHIP 0.1UF 10.00% 50V
C1512	1-128-992-21	s	ELECT CHIP 47UF 20% 25V
C1513	1-128-992-21	s	ELECT CHIP 47UF 20% 25V
C1514	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1515	1-128-992-21	s	ELECT CHIP 47UF 20% 25V
C1516	1-115-339-11	s	CERAMIC CHIP 0.1UF 10.00% 50V
C1517	1-115-339-11	s	CERAMIC CHIP 0.1UF 10.00% 50V
C1518	1-128-992-21	s	ELECT CHIP 47UF 20% 25V
C1519	1-115-339-11	s	CERAMIC CHIP 0.1UF 10.00% 50V
C1520	1-115-339-11	s	CERAMIC CHIP 0.1UF 10.00% 50V
C1521	1-115-339-11	s	CERAMIC CHIP 0.1UF 10.00% 50V
C1522	1-115-339-11	s	CERAMIC CHIP 0.1UF 10.00% 50V
C1523	1-128-992-21	s	ELECT CHIP 47UF 20% 25V
C1524	1-164-874-11	s	CERAMIC CHIP 100PF 5.00% 50V
C1525	1-115-339-11	s	CERAMIC CHIP 0.1UF 10.00% 50V
C1526	1-115-339-11	s	CERAMIC CHIP 0.1UF 10.00% 50V
C1527	1-126-197-11	s	ELECT CHIP 10UF 20.00% 50V
C1528	1-128-992-21	s	ELECT CHIP 47UF 20% 25V
C1529	1-115-339-11	s	CERAMIC CHIP 0.1UF 10.00% 50V
C1530	1-115-339-11	s	CERAMIC CHIP 0.1UF 10.00% 50V
C1531	1-125-827-91	s	CERAMIC CHIP 1UF 10.00% 25V
C1532	1-128-992-21	s	ELECT CHIP 47UF 20% 25V
C1533	1-125-777-11	s	CERAMIC CHIP 0.1UF 10.00% 10V
C1600	1-125-777-11	s	CERAMIC CHIP 0.1UF 10.00% 10V
C1601	1-126-205-11	s	ELECT CHIP 47UF 20.00% 6.3V
C1603	1-165-908-11	s	CERAMIC CHIP 1UF 10% 10V
C1605	1-165-908-11	s	CERAMIC CHIP 1UF 10% 10V
C1606	1-115-339-11	s	CERAMIC CHIP 0.1UF 10.00% 50V
C1607	1-115-339-11	s	CERAMIC CHIP 0.1UF 10.00% 50V
C1610	1-115-339-11	s	CERAMIC CHIP 0.1UF 10.00% 50V
C1611	1-115-339-11	s	CERAMIC CHIP 0.1UF 10.00% 50V
C1612	1-128-992-21	s	ELECT CHIP 47UF 20% 25V
C1613	1-128-992-21	s	ELECT CHIP 47UF 20% 25V
C1614	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1615	1-128-992-21	s	ELECT CHIP 47UF 20% 25V
C1616	1-115-339-11	s	CERAMIC CHIP 0.1UF 10.00% 50V
C1617	1-115-339-11	s	CERAMIC CHIP 0.1UF 10.00% 50V
C1618	1-128-992-21	s	ELECT CHIP 47UF 20% 25V
C1619	1-115-339-11	s	CERAMIC CHIP 0.1UF 10.00% 50V
C1620	1-115-339-11	s	CERAMIC CHIP 0.1UF 10.00% 50V
C1621	1-115-339-11	s	CERAMIC CHIP 0.1UF 10.00% 50V
C1622	1-115-339-11	s	CERAMIC CHIP 0.1UF 10.00% 50V
C1623	1-128-992-21	s	ELECT CHIP 47UF 20% 25V
C1624	1-115-339-11	s	CERAMIC CHIP 0.1UF 10.00% 50V
C1625	1-125-827-91	s	CERAMIC CHIP 1UF 10.00% 25V
C1626	1-128-992-21	s	ELECT CHIP 47UF 20% 25V
C1627	1-125-777-11	s	CERAMIC CHIP 0.1UF 10.00% 10V
C1700	1-125-777-11	s	CERAMIC CHIP 0.1UF 10.00% 10V
C1701	1-126-205-11	s	ELECT CHIP 47UF 20.00% 6.3V
C1703	1-165-908-11	s	CERAMIC CHIP 1UF 10% 10V
C1705	1-165-908-11	s	CERAMIC CHIP 1UF 10% 10V
C1706	1-115-339-11	s	CERAMIC CHIP 0.1UF 10.00% 50V
C1707	1-115-339-11	s	CERAMIC CHIP 0.1UF 10.00% 50V
C1710	1-115-339-11	s	CERAMIC CHIP 0.1UF 10.00% 50V
C1711	1-115-339-11	s	CERAMIC CHIP 0.1UF 10.00% 50V
C1712	1-128-992-21	s	ELECT CHIP 47UF 20% 25V
C1713	1-128-992-21	s	ELECT CHIP 47UF 20% 25V

(C BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
C1714	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1715	1-128-992-21	s	ELECT CHIP 47UF 20% 25V
C1716	1-115-339-11	s	CERAMIC CHIP 0.1UF 10.00% 50V
C1717	1-115-339-11	s	CERAMIC CHIP 0.1UF 10.00% 50V
C1718	1-128-992-21	s	ELECT CHIP 47UF 20% 25V
C1719	1-115-339-11	s	CERAMIC CHIP 0.1UF 10.00% 50V
C1720	1-115-339-11	s	CERAMIC CHIP 0.1UF 10.00% 50V
C1721	1-115-339-11	s	CERAMIC CHIP 0.1UF 10.00% 50V
C1722	1-115-339-11	s	CERAMIC CHIP 0.1UF 10.00% 50V
C1723	1-128-992-21	s	ELECT CHIP 47UF 20% 25V
C1724	1-115-339-11	s	CERAMIC CHIP 0.1UF 10.00% 50V
C1725	1-125-827-91	s	CERAMIC CHIP 1UF 10.00% 25V
C1726	1-128-992-21	s	ELECT CHIP 47UF 20% 25V
C1727	1-125-777-11	s	CERAMIC CHIP 0.1UF 10.00% 10V
C1800	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1801	1-126-205-11	s	ELECT CHIP 47UF 20.00% 6.3V
C1802	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C1803	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C1804	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C1805	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1806	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1807	1-164-937-11	s	CERAMIC CHIP 0.001UF 10.00% 50V
C1811	1-115-566-11	s	CERAMIC CHIP 4.7UF 10.00% 10V
C1812	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1813	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C1814	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1815	1-164-850-11	s	CERAMIC CHIP 10PF 0.50PF 50V
C1816	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1817	1-164-850-11	s	CERAMIC CHIP 10PF 0.50PF 50V
C1818	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C1819	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1820	1-125-777-11	s	CERAMIC CHIP 0.1UF 10.00% 10V
C1822	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1823	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1824	1-115-156-11	s	CERAMIC CHIP 1UF 10V
C1825	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1826	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1827	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1900	1-126-205-11	s	ELECT CHIP 47UF 20.00% 6.3V
C1901	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1902	1-128-992-21	s	ELECT CHIP 47UF 20% 25V
C1903	1-126-205-11	s	ELECT CHIP 47UF 20.00% 6.3V
C1904	1-126-205-11	s	ELECT CHIP 47UF 20.00% 6.3V
C1905	1-128-992-21	s	ELECT CHIP 47UF 20% 25V
C1906	1-128-992-21	s	ELECT CHIP 47UF 20% 25V
C1907	1-126-205-11	s	ELECT CHIP 47UF 20.00% 6.3V
C1910	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1912	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1914	1-126-205-11	s	ELECT CHIP 47UF 20.00% 6.3V
C1915	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C1918	1-164-943-11	s	CERAMIC CHIP 0.01UF 10.00% 16V
C1919	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1920	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1921	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1922	1-137-710-11	s	CERAMIC CHIP 10UF 20% 6.3V
C1926	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1927	1-128-992-21	s	ELECT CHIP 47UF 20% 25V
C1928	1-128-992-21	s	ELECT CHIP 47UF 20% 25V
C1929	1-128-992-21	s	ELECT CHIP 47UF 20% 25V

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Ref. No. or Q'ty	Part No.	SP	Description
C1930	1-128-992-21	s	ELECT CHIP 47UF 20% 25V
C1931	1-164-156-11	s	CERAMIC CHIP 0.1UF 25V
C1932	1-164-156-11	s	CERAMIC CHIP 0.1UF 25V
C1934	1-164-156-11	s	CERAMIC CHIP 0.1UF 25V
C1935	1-164-156-11	s	CERAMIC CHIP 0.1UF 25V
C1936	1-115-340-11	s	CERAMIC CHIP 0.22UF 10.00% 25V
C1937	1-115-340-11	s	CERAMIC CHIP 0.22UF 10.00% 25V
C1938	1-115-340-11	s	CERAMIC CHIP 0.22UF 10.00% 25V
C1939	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1940	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1941	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C1942	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
C2001	1-164-947-11	s	CERAMIC CHIP 0.01UF 50V
C2002	1-162-970-11	s	CERAMIC CHIP 0.01UF 10.00% 25V
C2003	1-162-970-11	s	CERAMIC CHIP 0.01UF 10.00% 25V
C2004	1-164-947-11	s	CERAMIC CHIP 0.01UF 50V
C2005	1-162-970-11	s	CERAMIC CHIP 0.01UF 10.00% 25V
C2006	1-115-339-11	s	CERAMIC CHIP 0.1UF 10.00% 50V
C2007	1-126-204-11	s	ELECT CHIP 47UF 20.00% 16V
C2008	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
CN101	1-784-828-11	s	CONNECTOR, D SUB
CN200 *2	1-794-962-11	s	CONNECTOR, SQUARE TYPE(USB 5P)
CN201	1-784-650-21	s	CONNECTOR 2P
CN203	1-784-650-21	s	CONNECTOR 2P
CN400	1-817-733-11	s	HDMI CONNECTOR
CN1092	1-779-806-21	s	CONNECTOR 8P
CN1093	1-785-946-21	s	CONNECTOR 3P
CN1400	1-779-884-11	s	CONNECTOR 4P
CN1500	1-794-823-11	s	CONNECTOR (ZIF), FPC/FFC 32P
CN1600	1-794-823-11	s	CONNECTOR (ZIF), FPC/FFC 32P
CN1700	1-794-823-11	s	CONNECTOR (ZIF), FPC/FFC 32P
CN1800	1-778-965-21	s	CONNECTOR 12P
CN1801	1-770-622-21	s	PIN, CONNECTOR 5P
CN1806 *2	1-770-625-21	s	CONNECTOR 12P
CN1900	1-764-829-11	o	CONNECTOR, FPC 24P
CN1901	1-779-884-11	s	CONNECTOR 4P
CN1902	1-784-650-21	s	CONNECTOR 2P
CN1903	1-779-884-11	s	CONNECTOR 4P
CN1905	1-785-946-21	s	CONNECTOR 3P
CN1906	1-779-884-11	s	CONNECTOR 4P
CN1907	1-573-290-21	s	PIN, CONNECTOR (1.5MM) (SMD)4P
CN1909	1-691-550-11	s	PIN, CONNECTOR (1.5MM)(SMD) 3P
CN1910	1-691-550-11	s	PIN, CONNECTOR (1.5MM)(SMD) 3P
CN1911	1-691-550-11	s	PIN, CONNECTOR (1.5MM)(SMD) 3P
CN2000	1-691-591-11	o	PIN, CONNECTOR (1.5MM) (SMD)8P
D100	6-500-539-01	s	DIODE RSB6.8SFTE61
D101	6-500-539-01	s	DIODE RSB6.8SFTE61
D102	6-500-539-01	s	DIODE RSB6.8SFTE61
D104	8-719-941-86	s	DIODE DAN202UT106
D106	8-719-914-43	s	DIODE DAN202K-T-146
D109	6-500-539-01	s	DIODE RSB6.8SFTE61
D110	6-500-539-01	s	DIODE RSB6.8SFTE61
D111	8-719-073-11	s	DIODE BZA456A
D112	8-719-037-22	s	DIODE RD12SB-T1
D201 *2	8-719-036-80	s	DIODE RD3.9SB-T1
D202 *2	8-719-036-80	s	DIODE RD3.9SB-T1
D203 *2	8-719-988-61	s	DIODE 1SS355TE-17

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Ref. No. or Q'ty	Part No.	SP	Description
D401	8-719-069-55	s	DIODE UDZSTE-175.6B
D402	8-719-069-55	s	DIODE UDZSTE-175.6B
D403	8-719-941-86	s	DIODE DAN202UT106
D408	8-719-914-44	s	DIODE DAP202K-T-146
D412	8-719-941-86	s	DIODE DAN202UT106
D700	8-719-059-53	s	DIODE MA3J14700LSO
D701	8-719-059-53	s	DIODE MA3J14700LSO
D702	8-719-059-53	s	DIODE MA3J14700LSO
D703	8-719-059-53	s	DIODE MA3J14700LSO
D704	8-719-059-53	s	DIODE MA3J14700LSO
D705	8-719-059-53	s	DIODE MA3J14700LSO
D706	8-719-059-53	s	DIODE MA3J14700LSO
D707	8-719-059-53	s	DIODE MA3J14700LSO
D900	8-719-059-53	s	DIODE MA3J14700LSO
D901	8-719-059-53	s	DIODE MA3J14700LSO
D902	8-719-404-50	s	DIODE MA111-TX
D1800	8-719-024-77	s	DIODE HN1D03FU-TE85R
D1801	8-719-056-48	s	DIODE 1SS388(TPL3)
D1901	8-719-073-11	s	DIODE BZA456A
D1902	8-719-404-50	s	DIODE MA111-TX
D1903	8-719-404-50	s	DIODE MA111-TX
D1904	8-719-404-50	s	DIODE MA111-TX
D1905	8-719-404-50	s	DIODE MA111-TX
FB101	1-414-921-11	s	FERRITE 0UH
FB200	1-414-921-11	s	FERRITE 0UH
FB201	1-414-921-11	s	FERRITE 0UH
FB202 *2	1-414-921-11	s	FERRITE 0UH
FB203 *2	1-414-921-11	s	FERRITE 0UH
FB204 *2	1-414-921-11	s	FERRITE 0UH
FB205 *2	1-414-921-11	s	FERRITE 0UH
FB206 *2	1-414-921-11	s	FERRITE 0UH
FB207	1-414-921-11	s	FERRITE 0UH
FB400	1-414-921-11	s	FERRITE 0UH
FB401	1-414-921-11	s	FERRITE 0UH
FB402	1-414-921-11	s	FERRITE 0UH
FB500	1-414-921-11	s	FERRITE 0UH
FB501	1-414-921-11	s	FERRITE 0UH
FB502	1-414-921-11	s	FERRITE 0UH
FB503	1-414-921-11	s	FERRITE 0UH
FB504	1-414-921-11	s	FERRITE 0UH
FB600	1-414-921-11	s	FERRITE 0UH
FB601	1-414-921-11	s	FERRITE 0UH
FB602	1-414-921-11	s	FERRITE 0UH
FB603	1-414-921-11	s	FERRITE 0UH
FB700	1-414-921-11	s	FERRITE 0UH
FB701	1-414-921-11	s	FERRITE 0UH
FB702	1-414-921-11	s	FERRITE 0UH
FB800	1-414-921-11	s	FERRITE 0UH
FB802	1-414-921-11	s	FERRITE 0UH
FB900	1-414-921-11	s	FERRITE 0UH
FB903	1-414-921-11	s	FERRITE 0UH
FB1100	1-469-670-21	o	FERRITE 0UH
FB1101	1-469-670-21	o	FERRITE 0UH
FB1102	1-469-670-21	o	FERRITE 0UH
FB1200	1-469-670-21	o	FERRITE 0UH
FB1201	1-469-670-21	o	FERRITE 0UH
FB1202	1-469-670-21	o	FERRITE 0UH
FB1203	1-414-921-11	s	FERRITE 0UH

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Ref. No. or Q'ty	Part No.	SP	Description
FB1301	1-469-670-21	o	FERRITE 0UH
FB1302	1-414-921-11	s	FERRITE 0UH
FB1303	1-414-921-11	s	FERRITE 0UH
FB1304	1-414-921-11	s	FERRITE 0UH
FB1305	1-414-921-11	s	FERRITE 0UH
FB1400	1-469-670-21	o	FERRITE 0UH
FB1401	1-414-921-11	s	FERRITE 0UH
FB1402	1-414-921-11	s	FERRITE 0UH
FB1403	1-414-921-11	s	FERRITE 0UH
FB1404	1-469-670-21	o	FERRITE 0UH
FB1500	1-414-921-11	s	FERRITE 0UH
FB1501	1-414-921-11	s	FERRITE 0UH
FB1502	1-414-921-11	s	FERRITE 0UH
FB1503	1-414-921-11	s	FERRITE 0UH
FB1504	1-414-921-11	s	FERRITE 0UH
FB1600	1-414-921-11	s	FERRITE 0UH
FB1601	1-414-921-11	s	FERRITE 0UH
FB1602	1-414-921-11	s	FERRITE 0UH
FB1603	1-414-921-11	s	FERRITE 0UH
FB1604	1-414-921-11	s	FERRITE 0UH
FB1605	1-414-921-11	s	FERRITE 0UH
FB1700	1-414-921-11	s	FERRITE 0UH
FB1701	1-414-921-11	s	FERRITE 0UH
FB1702	1-414-921-11	s	FERRITE 0UH
FB1703	1-414-921-11	s	FERRITE 0UH
FB1704	1-414-921-11	s	FERRITE 0UH
FB1800 *2	1-414-921-11	s	FERRITE 0UH
FB1801 *2	1-414-921-11	s	FERRITE 0UH
FB1802 *2	1-414-921-11	s	FERRITE 0UH
FB1803 *2	1-414-921-11	s	FERRITE 0UH
FB1804 *2	1-414-921-11	s	FERRITE 0UH
FB1900	1-414-921-11	s	FERRITE 0UH
FB1901	1-414-921-11	s	FERRITE 0UH
FB1902	1-414-921-11	s	FERRITE 0UH
FB1904	1-414-921-11	s	FERRITE 0UH
FB1905	1-414-921-11	s	FERRITE 0UH
FB1906	1-414-921-11	s	FERRITE 0UH
FB1907	1-414-921-11	s	FERRITE 0UH
FB1908	1-414-921-11	s	FERRITE 0UH
FB1910	1-414-921-11	s	FERRITE 0UH
FB1912	1-414-921-11	s	FERRITE 0UH
FB1913	1-414-921-11	s	FERRITE 0UH
FB1914	1-414-921-11	s	FERRITE 0UH
FB1917	1-414-921-11	s	FERRITE 0UH
FB1918	1-414-921-11	s	FERRITE 0UH
FB1920	1-414-921-11	s	FERRITE 0UH
FB1921	1-414-921-11	s	FERRITE 0UH
FB1922	1-414-921-11	s	FERRITE 0UH
FB1923	1-469-670-21	o	FERRITE 0UH
FB1925	1-414-921-11	s	FERRITE 0UH
FB1926	1-414-921-11	s	FERRITE 0UH
FB1927	1-414-921-11	s	FERRITE 0UH
FB1928	1-414-921-11	s	FERRITE 0UH
FB1929	1-469-670-21	o	FERRITE 0UH
FB1930	1-469-670-21	o	FERRITE 0UH

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Ref. No. or Q'ty	Part No.	SP	Description
FB1932	1-469-670-21	o	FERRITE 0UH
FB1933	1-469-670-21	o	FERRITE 0UH
FB1934	1-469-670-21	o	FERRITE 0UH
FB1935	1-469-670-21	o	FERRITE 0UH
FB1936	1-469-670-21	o	FERRITE 0UH
FB1937	1-414-921-11	s	FERRITE 0UH
FB1938	1-469-670-21	o	FERRITE 0UH
FB2000	1-414-921-11	s	FERRITE 0UH
FB2001	1-414-921-11	s	FERRITE 0UH
FB2002	1-414-921-11	s	FERRITE 0UH
FB2003	1-414-921-11	s	FERRITE 0UH
FB2004	1-414-921-11	s	FERRITE 0UH
FB2005	1-414-921-11	s	FERRITE 0UH
FB2006	1-414-921-11	s	FERRITE 0UH
FB2007	1-414-921-11	s	FERRITE 0UH
FL500	1-239-848-21	s	FILTER, LOW PASS
FL501	1-239-848-21	s	FILTER, LOW PASS
FL502	1-239-848-21	s	FILTER, LOW PASS
FL1300	1-234-494-21	s	FILTER, EMI REMOVAL (SMD)
FL1903	1-234-494-21	s	FILTER, EMI REMOVAL (SMD)
FL1905	1-234-494-21	s	FILTER, EMI REMOVAL (SMD)
IC100	8-759-661-55	s	IC ST24FC21M6TR
IC102	8-759-596-39	s	IC SN74LV4052APWR
IC200	6-804-846-01	s	IC LC4032V-75TN48C-DLY2
IC201 *2	6-701-707-01	s	IC ST72T631K4M1-201
IC400	6-704-001-01	s	IC BR24L02F-WE2
IC401	8-759-596-39	s	IC SN74LV4052APWR
IC402	6-703-225-01	s	IC S-80928CNMC-G8YT2G
IC403	6-704-499-01	s	IC SII9993CTG100
IC500	6-704-841-01	s	IC AIC1117A-50PEJTR
IC501	6-705-093-01	s	IC AIC1117A-25PEJTR
IC502	6-701-174-01	s	IC MM1573DNLE
IC503	6-700-960-01	s	IC UPD64083GF-3BA
IC504	6-702-295-01	s	IC NJM78M12DL1A-TE1
IC600	6-704-842-01	s	IC AIC1117A-33PEJTR
IC602	6-704-007-01	s	IC MM1571JNLE
IC603	6-701-174-01	s	IC MM1573DNLE
IC604	6-704-958-01	s	IC AIC1117A-18PYJTR
IC605	6-703-225-01	s	IC S-80928CNMC-G8YT2G
IC700	6-704-842-01	s	IC AIC1117A-33PEJTR
IC701	6-704-007-01	s	IC MM1571JNLE
IC702	6-707-502-01	s	IC AD9981KSTZ-95
IC703	8-759-679-53	s	IC SN74LVC244APWR
IC800	8-759-573-97	s	IC SN74LVC541APWR
IC801	8-759-573-97	s	IC SN74LVC541APWR
IC802	8-759-573-97	s	IC SN74LVC541APWR
IC803	8-759-573-97	s	IC SN74LVC541APWR
IC804	8-759-573-97	s	IC SN74LVC541APWR
IC805	8-759-573-97	s	IC SN74LVC541APWR
IC900	8-759-669-41	s	IC SN74LVC125APWR-12
IC901	8-759-523-97	s	IC TC74VHC123AFT(EL)
IC902	8-759-337-26	s	IC MM1115XFBE
IC904	6-704-954-01	s	IC AIC1117A-50PYJTR
IC905	6-703-225-01	s	IC S-80928CNMC-G8YT2G
IC906	6-706-928-01	s	IC TE8200PF
IC1000	6-703-225-01	s	IC S-80928CNMC-G8YT2G
IC1101	6-705-137-01	s	IC NE57814DD.118
IC1102	6-705-089-01	s	IC K4D263238F-UC50T

(C BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
IC1201	6-704-843-01	s	IC AIC1117A-PEJTR
IC1300	6-704-843-01	s	IC AIC1117A-PEJTR
IC1302	6-703-225-01	s	IC S-80928CNMC-G8YT2G
IC1303	6-804-689-01	s	IC ICS342M-05LF
IC1304	8-759-471-89	s	IC 74VHC02MTCX
IC1305	6-805-067-01	s	IC MX29LV800BTTC-70G-89PW
IC1400	6-700-953-01	s	IC LM1117MPX-1.8
IC1401	6-706-960-01	s	IC CXD9809GF
IC1402	6-703-225-01	s	IC S-80928CNMC-G8YT2G
IC1403	6-702-985-01	s	IC M24256-BWMN6T
IC1404	8-759-679-58	s	IC SN74AHCT541PWR
IC1405	8-759-679-58	s	IC SN74AHCT541PWR
IC1500	6-704-953-01	s	IC AIC1117A-33PYJTR
IC1501	8-752-107-63	s	IC CXA7004R-T4
IC1502	8-752-107-63	s	IC CXA7004R-T4
IC1503	6-705-025-01	s	IC PQ20WZ1UJ00H
IC1504	6-707-208-01	s	IC TK11100CSCB-G
IC1505	6-707-322-01	s	IC SN74LVC1G14DCKR
IC1600	6-704-953-01	s	IC AIC1117A-33PYJTR
IC1601	8-752-107-63	s	IC CXA7004R-T4
IC1602	8-752-107-63	s	IC CXA7004R-T4
IC1603	6-707-322-01	s	IC SN74LVC1G14DCKR
IC1700	6-704-953-01	s	IC AIC1117A-33PYJTR
IC1701	8-752-107-63	s	IC CXA7004R-T4
IC1702	8-752-107-63	s	IC CXA7004R-T4
IC1703	6-707-322-01	s	IC SN74LVC1G14DCKR
IC1801	8-759-549-01	s	IC SN74LV125APWR
IC1802	6-706-022-01	s	IC HD64F2378VFQ34V
IC1803	6-703-225-01	s	IC S-80928CNMC-G8YT2G
IC1804	6-702-688-01	s	IC M24C64-WMN6T(B)
IC1805	8-759-548-95	s	IC SN74LV00APWR
IC1806	8-759-549-01	s	IC SN74LV125APWR
IC1807	6-704-001-01	s	IC BR24L02F-WE2
IC1808 *2	8-759-549-01	s	IC SN74LV125APWR
IC1809 *2	8-759-196-93	s	IC TC7SH00FU-TE85R
IC1900	6-704-954-01	s	IC AIC1117A-50PYJTR
IC1902	6-701-174-01	s	IC MM1573DNLE
IC1903	6-706-740-01	s	IC BA00BC0WFP-E2
IC1904	6-706-740-01	s	IC BA00BC0WFP-E2
IC1905	6-706-740-01	s	IC BA00BC0WFP-E2
IC1907	6-706-740-01	s	IC BA00BC0WFP-E2
IC2000	8-759-337-40	s	IC NJM2904V(TE2)
IC2001	8-759-646-99	s	IC NJM4556AV(TE2)
IC2002	6-705-025-01	s	IC PQ20WZ1UJ00H
IC2003	8-759-337-40	s	IC NJM2904V(TE2)
J100	1-785-549-41	o	JACK, PIN YELLOW
J101	1-816-949-11	o	PIN JACK 3P
J102	1-695-473-11	s	JACK (EARPHONE)
J103	1-694-242-11	s	TERMINAL, S
L400	1-469-525-91	s	INDUCTOR 10UH
L401	1-469-525-91	s	INDUCTOR 10UH
L402	1-469-525-91	s	INDUCTOR 10UH
L403	1-469-525-91	s	INDUCTOR 10UH
L500	1-469-525-91	s	INDUCTOR 10UH
L501	1-410-200-31	s	INDUCTOR 4.7UH
L502	1-412-058-11	s	INDUCTOR 10UH
L503	1-469-525-91	s	INDUCTOR 10UH

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Ref. No. or Q'ty	Part No.	SP	Description
L504	1-412-058-11	s	INDUCTOR 10UH
L600	1-469-522-91	s	INDUCTOR 1UH
L601	1-469-525-91	s	INDUCTOR 10UH
L602	1-469-525-91	s	INDUCTOR 10UH
L900	1-469-525-91	s	INDUCTOR 10UH
L1300	1-469-528-91	s	INDUCTOR 100UH
L1502	1-469-522-91	s	INDUCTOR 1UH
L1503	1-469-522-91	s	INDUCTOR 1UH
L1504	1-469-522-91	s	INDUCTOR 1UH
L1505	1-469-522-91	s	INDUCTOR 1UH
L1602	1-469-522-91	s	INDUCTOR 1UH
L1603	1-469-522-91	s	INDUCTOR 1UH
L1604	1-469-522-91	s	INDUCTOR 1UH
L1605	1-469-522-91	s	INDUCTOR 1UH
L1702	1-469-522-91	s	INDUCTOR 1UH
L1703	1-469-522-91	s	INDUCTOR 1UH
L1704	1-469-522-91	s	INDUCTOR 1UH
L1705	1-469-522-91	s	INDUCTOR 1UH
Q101	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q200 *2	8-729-013-28	s	TRANSISTOR HN1B01FU-TE85R
Q400	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q401	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q402	6-550-014-01	s	TRANSISTOR SSM6N15FU(TE85R)
Q500	8-729-026-53	s	TRANSISTOR 2SA1576A-T106-QR
Q501	8-729-026-53	s	TRANSISTOR 2SA1576A-T106-QR
Q502	8-729-905-35	s	TRANSISTOR 2SC4081-R
Q503	8-729-026-53	s	TRANSISTOR 2SA1576A-T106-QR
Q504	8-729-026-53	s	TRANSISTOR 2SA1576A-T106-QR
Q505	8-729-026-53	s	TRANSISTOR 2SA1576A-T106-QR
Q506	8-729-905-35	s	TRANSISTOR 2SC4081-R
Q507	8-729-905-35	s	TRANSISTOR 2SC4081-R
Q508	8-729-905-35	s	TRANSISTOR 2SC4081-R
Q509	8-729-026-53	s	TRANSISTOR 2SA1576A-T106-QR
Q510	8-729-905-35	s	TRANSISTOR 2SC4081-R
Q511	8-729-905-35	s	TRANSISTOR 2SC4081-R
Q512	8-729-905-35	s	TRANSISTOR 2SC4081-R
Q513	8-729-905-35	s	TRANSISTOR 2SC4081-R
Q514	8-729-905-35	s	TRANSISTOR 2SC4081-R
Q515	8-729-026-53	s	TRANSISTOR 2SA1576A-T106-QR
Q516	8-729-905-35	s	TRANSISTOR 2SC4081-R
Q517	8-729-026-53	s	TRANSISTOR 2SA1576A-T106-QR
Q518	8-729-905-35	s	TRANSISTOR 2SC4081-R
Q519	8-729-905-35	s	TRANSISTOR 2SC4081-R
Q520	8-729-026-53	s	TRANSISTOR 2SA1576A-T106-QR
Q521	8-729-905-35	s	TRANSISTOR 2SC4081-R
Q522	8-729-026-53	s	TRANSISTOR 2SA1576A-T106-QR
Q900	8-729-905-35	s	TRANSISTOR 2SC4081-R
Q901	8-729-905-35	s	TRANSISTOR 2SC4081-R
Q902	8-729-905-35	s	TRANSISTOR 2SC4081-R
Q903	8-729-905-35	s	TRANSISTOR 2SC4081-R
Q904	8-729-026-53	s	TRANSISTOR 2SA1576A-T106-QR
Q905	8-729-905-35	s	TRANSISTOR 2SC4081-R
Q906	8-729-026-53	s	TRANSISTOR 2SA1576A-T106-QR
Q907	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q908	8-729-905-35	s	TRANSISTOR 2SC4081-R
Q909	8-729-905-35	s	TRANSISTOR 2SC4081-R
Q1300	8-729-907-00	s	TRANSISTOR DTC114EU
Q1301	6-550-354-01	s	TRANSISTOR RTQ035P02TR

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Ref. No. or Q'ty	Part No.	SP	Description
Q1400	8-729-907-00	s	TRANSISTOR DTC114EU
Q1401	8-729-013-28	s	TRANSISTOR HN1B01FU-TE85R
Q1500	8-729-013-28	s	TRANSISTOR HN1B01FU-TE85R
Q1501	8-729-013-28	s	TRANSISTOR HN1B01FU-TE85R
Q1600	8-729-013-28	s	TRANSISTOR HN1B01FU-TE85R
Q1601	8-729-013-28	s	TRANSISTOR HN1B01FU-TE85R
Q1700	8-729-013-28	s	TRANSISTOR HN1B01FU-TE85R
Q1701	8-729-013-28	s	TRANSISTOR HN1B01FU-TE85R
Q1801	6-550-014-01	s	TRANSISTOR SSM6N15FU(TE85R)
Q1802	6-550-014-01	s	TRANSISTOR SSM6N15FU(TE85R)
Q1803	6-550-014-01	s	TRANSISTOR SSM6N15FU(TE85R)
Q1804	6-550-014-01	s	TRANSISTOR SSM6N15FU(TE85R)
Q1805	6-550-014-01	s	TRANSISTOR SSM6N15FU(TE85R)
Q1806	8-729-013-28	s	TRANSISTOR HN1B01FU-TE85R
Q1807	6-550-014-01	s	TRANSISTOR SSM6N15FU(TE85R)
Q1808	6-550-014-01	s	TRANSISTOR SSM6N15FU(TE85R)
Q1809	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q1810	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q1811	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q1812	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q1813	6-550-014-01	s	TRANSISTOR SSM6N15FU(TE85R)
Q1900	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q1902	8-729-026-53	s	TRANSISTOR 2SA1576A-T106-QR
Q1903	8-729-013-28	s	TRANSISTOR HN1B01FU-TE85R
Q1904	8-729-013-28	s	TRANSISTOR HN1B01FU-TE85R
Q1905	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q1906	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q1907	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q1909	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q1910	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q1911	8-729-013-28	s	TRANSISTOR HN1B01FU-TE85R
Q1912	8-729-013-28	s	TRANSISTOR HN1B01FU-TE85R
Q1913	8-729-013-28	s	TRANSISTOR HN1B01FU-TE85R
Q1914	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q1915	8-729-028-91	s	TRANSISTOR DTA144EUA-T106
Q1916	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q2000	8-729-013-28	s	TRANSISTOR HN1B01FU-TE85R
Q2001	8-729-905-35	s	TRANSISTOR 2SC4081-R
R105	1-211-979-11	s	METAL CHIP 27 0.5% 1/10W
R106	1-211-979-11	s	METAL CHIP 27 0.5% 1/10W
R107	1-211-979-11	s	METAL CHIP 27 0.5% 1/10W
R108	1-211-979-11	s	METAL CHIP 27 0.5% 1/10W
R109	1-211-979-11	s	METAL CHIP 27 0.5% 1/10W
R110	1-211-979-11	s	METAL CHIP 27 0.5% 1/10W
R111	1-211-985-11	s	METAL CHIP 47 0.5% 1/10W
R112	1-211-985-11	s	METAL CHIP 47 0.5% 1/10W
R113	1-211-985-11	s	METAL CHIP 47 0.5% 1/10W
R114	1-211-985-11	s	METAL CHIP 47 0.5% 1/10W
R115	1-211-985-11	s	METAL CHIP 47 0.5% 1/10W
R116	1-211-985-11	s	METAL CHIP 47 0.5% 1/10W
R122	1-218-990-11	s	SHORT CHIP 0
R124	1-218-990-11	s	SHORT CHIP 0
R127	1-218-937-11	s	RES-CHIP 47 5% 1/16W
R128	1-218-937-11	s	RES-CHIP 47 5% 1/16W
R129	1-218-937-11	s	RES-CHIP 47 5% 1/16W
R131	1-218-969-11	s	RES-CHIP 22K 5% 1/16W
R133	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R135	1-218-967-11	s	RES-CHIP 15K 5% 1/16W

(C BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R136	1-218-967-11	s	RES-CHIP 15K 5% 1/16W
R137	1-216-829-11	s	METAL CHIP 4.7K 5% 1/10W
R138	1-218-973-11	s	RES-CHIP 47K 5% 1/16W
R139	1-216-813-11	s	METAL CHIP 220 5% 1/10W
R140	1-216-805-11	s	METAL CHIP 47 5% 1/10W
R141	1-216-805-11	s	METAL CHIP 47 5% 1/10W
R142	1-218-990-11	s	SHORT CHIP 0
R143	1-218-990-11	s	SHORT CHIP 0
R200 *2	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R201 *2	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R202 *2	1-218-953-11	s	RES-CHIP 1K 5% 1/16W
R203 *2	1-218-990-11	s	SHORT CHIP 0
R204 *2	1-218-990-11	s	SHORT CHIP 0
R205 *2	1-218-957-11	s	RES-CHIP 2.2K 5% 1/16W
R209	1-218-941-81	s	RES-CHIP 100 5% 1/16W
R218	1-218-941-81	s	RES-CHIP 100 5% 1/16W
R219 *2	1-218-969-11	s	RES-CHIP 22K 5% 1/16W
R220 *2	1-218-973-11	s	RES-CHIP 47K 5% 1/16W
R221 *2	1-218-989-11	s	RES-CHIP 1M 5% 1/16W
R222 *2	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R223 *2	1-218-955-11	s	RES-CHIP 1.5K 5% 1/16W
R224 *2	1-218-961-11	s	CHIP 4.7K 5% 1/16W
R225 *2	1-218-961-11	s	CHIP 4.7K 5% 1/16W
R226 *2	1-218-937-11	s	RES-CHIP 47 5% 1/16W
R227 *2	1-218-937-11	s	RES-CHIP 47 5% 1/16W
R228 *2	1-218-937-11	s	RES-CHIP 47 5% 1/16W
R229	1-218-941-81	s	RES-CHIP 100 5% 1/16W
R230	1-218-941-81	s	RES-CHIP 100 5% 1/16W
R231	1-218-941-81	s	RES-CHIP 100 5% 1/16W
R232	1-218-941-81	s	RES-CHIP 100 5% 1/16W
R234	1-218-941-81	s	RES-CHIP 100 5% 1/16W
R400	1-218-953-11	s	RES-CHIP 1K 5% 1/16W
R402	1-218-937-11	s	RES-CHIP 47 5% 1/16W
R404	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R405	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R406	1-218-953-11	s	RES-CHIP 1K 5% 1/16W
R407	1-218-937-11	s	RES-CHIP 47 5% 1/16W
R408	1-218-937-11	s	RES-CHIP 47 5% 1/16W
R409	1-218-937-11	s	RES-CHIP 47 5% 1/16W
R410	1-218-937-11	s	RES-CHIP 47 5% 1/16W
R411	1-218-961-11	s	RES-CHIP 4.7K 5% 1/16W
R412	1-218-961-11	s	RES-CHIP 4.7K 5% 1/16W
R413	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R414	1-218-941-81	s	RES-CHIP 100 5% 1/16W
R415	1-218-937-11	s	RES-CHIP 47 5% 1/16W
R416	1-218-937-11	s	RES-CHIP 47 5% 1/16W
R417	1-218-961-11	s	RES-CHIP 4.7K 5% 1/16W
R418	1-218-682-11	s	METAL CHIP 390 0.5% 1/10W
R419	1-218-961-11	s	RES-CHIP 4.7K 5% 1/16W
R420	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R421	1-218-937-11	s	RES-CHIP 47 5% 1/16W
R422	1-218-937-11	s	RES-CHIP 47 5% 1/16W
R423	1-218-941-81	s	RES-CHIP 100 5% 1/16W
R425	1-218-941-81	s	RES-CHIP 100 5% 1/16W
R426	1-218-941-81	s	RES-CHIP 100 5% 1/16W
R427	1-218-941-81	s	RES-CHIP 100 5% 1/16W
R428	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R429	1-218-961-11	s	RES-CHIP 4.7K 5% 1/16W
R430	1-218-937-11	s	RES-CHIP 47 5% 1/16W

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Ref. No. or Q'ty	Part No.	SP	Description
R431	1-218-937-11	s	RES-CHIP 47 5% 1/16W
R432	1-218-929-11	s	RES-CHIP 10 5% 1/16W
R433	1-218-990-11	s	SHORT CHIP 0
R434	1-218-937-11	s	RES-CHIP 47 5% 1/16W
R435	1-216-864-11	s	SHORT CHIP 0
R500	1-218-953-11	s	RES-CHIP 1K 5% 1/16W
R501	1-218-955-11	s	RES-CHIP 1.5K 5% 1/16W
R502	1-218-949-11	s	RES-CHIP 470 5% 1/16W
R503	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R504	1-218-941-81	s	RES-CHIP 100 5% 1/16W
R505	1-218-941-81	s	RES-CHIP 100 5% 1/16W
R506	1-218-953-11	s	RES-CHIP 1K 5% 1/16W
R507	1-218-953-11	s	RES-CHIP 1K 5% 1/16W
R508	1-218-990-11	s	SHORT CHIP 0
R509	1-218-961-11	s	RES-CHIP 4.7K 5% 1/16W
R510	1-218-957-11	s	RES-CHIP 2.2K 5% 1/16W
R511	1-218-949-11	s	RES-CHIP 470 5% 1/16W
R512	1-218-949-11	s	RES-CHIP 470 5% 1/16W
R513	1-218-957-11	s	RES-CHIP 2.2K 5% 1/16W
R514	1-208-677-11	s	METAL CHIP 560 0.5% 1/16W
R515	1-208-677-11	s	METAL CHIP 560 0.5% 1/16W
R516	1-218-957-11	s	RES-CHIP 2.2K 5% 1/16W
R517	1-218-953-11	s	RES-CHIP 1K 5% 1/16W
R518	1-218-957-11	s	RES-CHIP 2.2K 5% 1/16W
R519	1-218-941-81	s	RES-CHIP 100 5% 1/16W
R520	1-218-973-11	s	RES-CHIP 47K 5% 1/16W
R521	1-218-981-11	s	RES-CHIP 220K 5% 1/16W
R523	1-208-701-11	s	METAL CHIP 5.6K 0.5% 1/16W
R524	1-218-945-11	s	RES-CHIP 220 5% 1/16W
R525	1-208-701-11	s	METAL CHIP 5.6K 0.5% 1/16W
R526	1-218-957-11	s	RES-CHIP 2.2K 5% 1/16W
R527	1-218-957-11	s	RES-CHIP 2.2K 5% 1/16W
R528	1-208-675-11	s	METAL CHIP 470 0.5% 1/16W
R529	1-218-952-11	s	RES-CHIP 820 5% 1/16W
R530	1-208-675-11	s	METAL CHIP 470 0.5% 1/16W
R531	1-218-953-11	s	RES-CHIP 1K 5% 1/16W
R532	1-208-651-11	s	METAL CHIP 47 0.5% 1/16W
R533	1-208-675-11	s	METAL CHIP 470 0.5% 1/16W
R534	1-208-675-11	s	METAL CHIP 470 0.5% 1/16W
R535	1-208-701-11	s	METAL CHIP 5.6K 0.5% 1/16W
R536	1-218-990-11	s	SHORT CHIP 0
R537	1-208-691-11	s	METAL CHIP 2.2K 0.5% 1/16W
R538	1-218-952-11	s	RES-CHIP 820 5% 1/16W
R539	1-208-691-11	s	METAL CHIP 2.2K 0.5% 1/16W
R540	1-218-952-11	s	RES-CHIP 820 5% 1/16W
R541	1-218-971-11	s	RES-CHIP 33K 5% 1/16W
R542	1-218-966-11	s	RES-CHIP 12K 5% 1/16W
R543	1-218-971-11	s	RES-CHIP 33K 5% 1/16W
R544	1-218-966-11	s	RES-CHIP 12K 5% 1/16W
R545	1-218-953-11	s	RES-CHIP 1K 5% 1/16W
R546	1-218-953-11	s	RES-CHIP 1K 5% 1/16W
R547	1-208-677-11	s	METAL CHIP 560 0.5% 1/16W
R548	1-218-937-11	s	RES-CHIP 47 5% 1/16W
R549	1-218-937-11	s	RES-CHIP 47 5% 1/16W
R550	1-218-953-11	s	RES-CHIP 1K 5% 1/16W
R551	1-218-953-11	s	RES-CHIP 1K 5% 1/16W
R552	1-218-953-11	s	RES-CHIP 1K 5% 1/16W
R553	1-218-953-11	s	RES-CHIP 1K 5% 1/16W
R554	1-218-953-11	s	RES-CHIP 1K 5% 1/16W

(C BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R555	1-218-941-81	s	RES-CHIP 100 5% 1/16W
R556	1-218-973-11	s	RES-CHIP 47K 5% 1/16W
R557	1-218-973-11	s	RES-CHIP 47K 5% 1/16W
R558	1-208-663-11	s	METAL CHIP 150 0.5% 1/16W
R560	1-208-663-11	s	METAL CHIP 150 0.5% 1/16W
R561	1-208-663-11	s	METAL CHIP 150 0.5% 1/16W
R600	1-211-979-11	s	METAL CHIP 27 0.5% 1/10W
R601	1-211-985-11	s	METAL CHIP 47 0.5% 1/10W
R602	1-218-990-11	s	SHORT CHIP 0
R603	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R604	1-218-990-11	s	SHORT CHIP 0
R606	1-211-979-11	s	METAL CHIP 27 0.5% 1/10W
R609	1-218-941-81	s	RES-CHIP 100 5% 1/16W
R610	1-211-985-11	s	METAL CHIP 47 0.5% 1/10W
R611	1-211-985-11	s	METAL CHIP 47 0.5% 1/10W
R613	1-211-979-11	s	METAL CHIP 27 0.5% 1/10W
R615	1-218-941-81	s	RES-CHIP 100 5% 1/16W
R616	1-218-990-11	s	SHORT CHIP 0
R617	1-218-961-11	s	RES-CHIP 4.7K 5% 1/16W
R619	1-211-987-11	s	METAL CHIP 56 0.5% 1/10W
R621	1-218-823-11	s	METAL CHIP 100 0.5% 1/10W
R626	1-218-941-81	s	RES-CHIP 100 5% 1/16W
R629	1-218-941-81	s	RES-CHIP 100 5% 1/16W
R630	1-218-941-81	s	RES-CHIP 100 5% 1/16W
R634	1-211-985-11	s	METAL CHIP 47 0.5% 1/10W
R635	1-211-979-11	s	METAL CHIP 27 0.5% 1/10W
R637	1-218-929-11	s	RES-CHIP 10 5% 1/16W
R639	1-218-990-11	s	SHORT CHIP 0
R700	1-218-937-11	s	RES-CHIP 47 5% 1/16W
R702	1-218-937-11	s	RES-CHIP 47 5% 1/16W
R703	1-218-937-11	s	RES-CHIP 47 5% 1/16W
R704	1-218-937-11	s	RES-CHIP 47 5% 1/16W
R705	1-218-937-11	s	RES-CHIP 47 5% 1/16W
R706	1-218-937-11	s	RES-CHIP 47 5% 1/16W
R707	1-218-937-11	s	RES-CHIP 47 5% 1/16W
R708	1-218-937-11	s	RES-CHIP 47 5% 1/16W
R709	1-218-937-11	s	RES-CHIP 47 5% 1/16W
R710	1-218-937-11	s	RES-CHIP 47 5% 1/16W
R711	1-218-937-11	s	RES-CHIP 47 5% 1/16W
R715	1-218-937-11	s	RES-CHIP 47 5% 1/16W
R716	1-218-937-11	s	RES-CHIP 47 5% 1/16W
R717	1-208-687-11	s	METAL CHIP 1.5K 0.5% 1/16W
R718	1-218-937-11	s	RES-CHIP 47 5% 1/16W
R719	1-218-937-11	s	RES-CHIP 47 5% 1/16W
R720	1-218-937-11	s	RES-CHIP 47 5% 1/16W
R721	1-218-937-11	s	RES-CHIP 47 5% 1/16W
R722	1-218-933-11	s	RES-CHIP 22 5% 1/16W
R723	1-218-933-11	s	RES-CHIP 22 5% 1/16W
R800	1-218-929-11	s	RES-CHIP 10 5% 1/16W
R801	1-218-929-11	s	RES-CHIP 10 5% 1/16W
R802	1-218-929-11	s	RES-CHIP 10 5% 1/16W
R900	1-218-990-11	s	SHORT CHIP 0
R901	1-218-990-11	s	SHORT CHIP 0
R902	1-218-990-11	s	SHORT CHIP 0
R903	1-218-937-11	s	RES-CHIP 47 5% 1/16W
R904	1-218-977-11	s	RES-CHIP 100K 5% 1/16W
R905	1-218-981-11	s	RES-CHIP 220K 5% 1/16W
R906	1-218-937-11	s	RES-CHIP 47 5% 1/16W
R907	1-218-937-11	s	RES-CHIP 47 5% 1/16W

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Ref. No. or Q'ty	Part No.	SP	Description
R908	1-218-937-11	s	RES-CHIP 47 5% 1/16W
R909	1-218-953-11	s	RES-CHIP 1K 5% 1/16W
R910	1-218-953-11	s	RES-CHIP 1K 5% 1/16W
R911	1-218-953-11	s	RES-CHIP 1K 5% 1/16W
R912	1-208-689-11	s	METAL CHIP 1.8K 0.5% 1/16W
R913	1-218-977-11	s	RES-CHIP 100K 5% 1/16W
R914	1-218-977-11	s	RES-CHIP 100K 5% 1/16W
R915	1-218-977-11	s	RES-CHIP 100K 5% 1/16W
R916	1-218-977-11	s	RES-CHIP 100K 5% 1/16W
R917	1-218-941-81	s	RES-CHIP 100 5% 1/16W
R918	1-218-941-81	s	RES-CHIP 100 5% 1/16W
R919	1-218-953-11	s	RES-CHIP 1K 5% 1/16W
R920	1-218-953-11	s	RES-CHIP 1K 5% 1/16W
R921	1-208-947-11	s	METAL CHIP 330K 0.5% 1/16W
R922	1-218-937-11	s	RES-CHIP 47 5% 1/16W
R923	1-218-937-11	s	RES-CHIP 47 5% 1/16W
R924	1-218-961-11	s	RES-CHIP 4.7K 5% 1/16W
R925	1-218-977-11	s	RES-CHIP 100K 5% 1/16W
R926	1-218-981-11	s	RES-CHIP 220K 5% 1/16W
R928	1-218-961-11	s	RES-CHIP 4.7K 5% 1/16W
R929	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R930	1-218-937-11	s	RES-CHIP 47 5% 1/16W
R931	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R932	1-218-941-81	s	RES-CHIP 100 5% 1/16W
R933	1-218-989-11	s	RESISTOR,CHIP 1M 1/16W (1005)
R934	1-218-941-81	s	RES-CHIP 100 5% 1/16W
R935	1-218-953-11	s	RES-CHIP 1K 5% 1/16W
R936	1-219-606-11	s	METAL CHIP 100K 0.5% 1/16W
R937	1-208-703-11	s	METAL CHIP 6.8K 0.5% 1/16W
R938	1-218-941-81	s	RES-CHIP 100 5% 1/16W
R939	1-218-953-11	s	RES-CHIP 1K 5% 1/16W
R940	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R941	1-218-953-11	s	RES-CHIP 1K 5% 1/16W
R942	1-218-941-81	s	RES-CHIP 100 5% 1/16W
R948	1-218-929-11	s	RES-CHIP 10 5% 1/16W
R949	1-218-929-11	s	RES-CHIP 10 5% 1/16W
R950	1-218-929-11	s	RES-CHIP 10 5% 1/16W
R951	1-218-929-11	s	RES-CHIP 10 5% 1/16W
R952	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R953	1-218-941-81	s	RES-CHIP 100 5% 1/16W
R954	1-208-708-11	o	METAL CHIP 11K 0.5% 1/16W
R955	1-218-990-11	s	SHORT CHIP 0
R957	1-218-931-11	s	RES-CHIP 15 5% 1/16W
R958	1-218-989-11	s	RES-CHIP 1M 5% 1/16W
R959	1-218-941-81	s	RES-CHIP 100 5% 1/16W
R960	1-218-941-81	s	RES-CHIP 100 5% 1/16W
R961	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R962	1-218-937-11	s	RES-CHIP 47 5% 1/16W
R963	1-218-937-11	s	RES-CHIP 47 5% 1/16W
R964	1-218-937-11	s	RES-CHIP 47 5% 1/16W
R965	1-218-937-11	s	RES-CHIP 47 5% 1/16W
R967	1-218-937-11	s	RES-CHIP 47 5% 1/16W
R968	1-218-937-11	s	RES-CHIP 47 5% 1/16W
R969	1-218-937-11	s	RES-CHIP 47 5% 1/16W
R970	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R971	1-218-953-11	s	RES-CHIP 1K 5% 1/16W
R972	1-218-977-11	s	RES-CHIP 100K 5% 1/16W
R973	1-218-977-11	s	RES-CHIP 100K 5% 1/16W
R974	1-218-977-11	s	RES-CHIP 100K 5% 1/16W

(C BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R975	1-218-977-11	s	RES-CHIP 100K 5% 1/16W
R976	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R977	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1000	1-218-941-81	s	RES-CHIP 100 5% 1/16W
R1001	1-218-941-81	s	RES-CHIP 100 5% 1/16W
R1008	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1010	1-218-933-11	s	RES-CHIP 22 5% 1/16W
R1011	1-218-933-11	s	RES-CHIP 22 5% 1/16W
R1012	1-218-933-11	s	RES-CHIP 22 5% 1/16W
R1013	1-218-941-81	s	RES-CHIP 100 5% 1/16W
R1015	1-218-933-11	s	RES-CHIP 22 5% 1/16W
R1016	1-219-570-11	s	METAL CHIP 10M 5% 1/10W
R1017	1-218-937-11	s	RES-CHIP 47 5% 1/16W
R1018	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1020	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1021	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1023	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1025	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1026	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1028	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1030	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1031	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1032	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1033	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1037	1-218-937-11	s	RES-CHIP 47 5% 1/16W
R1038	1-218-929-11	s	RES-CHIP 10 5% 1/16W
R1039	1-218-929-11	s	RES-CHIP 10 5% 1/16W
R1040	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1041	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1101	1-218-933-11	s	RES-CHIP 22 5% 1/16W
R1102	1-218-933-11	s	RES-CHIP 22 5% 1/16W
R1103	1-218-933-11	s	RES-CHIP 22 5% 1/16W
R1104	1-218-933-11	s	RES-CHIP 22 5% 1/16W
R1105	1-218-933-11	s	RES-CHIP 22 5% 1/16W
R1106	1-218-933-11	s	RES-CHIP 22 5% 1/16W
R1107	1-218-933-11	s	RES-CHIP 22 5% 1/16W
R1108	1-218-933-11	s	RES-CHIP 22 5% 1/16W
R1109	1-218-933-11	s	RES-CHIP 22 5% 1/16W
R1110	1-218-933-11	s	RES-CHIP 22 5% 1/16W
R1111	1-218-937-11	s	RES-CHIP 47 5% 1/16W
R1112	1-218-937-11	s	RES-CHIP 47 5% 1/16W
R1113	1-218-937-11	s	RES-CHIP 47 5% 1/16W
R1114	1-218-937-11	s	RES-CHIP 47 5% 1/16W
R1115	1-218-937-11	s	RES-CHIP 47 5% 1/16W
R1116	1-218-937-11	s	RES-CHIP 47 5% 1/16W
R1117	1-218-937-11	s	RES-CHIP 47 5% 1/16W
R1118	1-218-937-11	s	RES-CHIP 47 5% 1/16W
R1119	1-218-937-11	s	RES-CHIP 47 5% 1/16W
R1120	1-218-937-11	s	RES-CHIP 47 5% 1/16W
R1121	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1122	1-218-937-11	s	RES-CHIP 47 5% 1/16W
R1123	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1124	1-218-937-11	s	RES-CHIP 47 5% 1/16W
R1201	1-208-675-11	s	METAL CHIP 470 0.5% 1/16W
R1202	1-208-659-11	s	METAL CHIP 100 0.5% 1/16W
R1301	1-208-683-11	s	METAL CHIP 1K 0.5% 1/16W
R1302	1-208-668-11	s	RES, METAL FILM CHIP 240(1005)
R1303	1-218-947-11	s	RES-CHIP 330 5% 1/16W
R1304	1-218-990-11	s	SHORT CHIP 0

(C BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R1305	1-218-933-11	s	RES-CHIP 22 5% 1/16W
R1306	1-218-933-11	s	RES-CHIP 22 5% 1/16W
R1307	1-218-933-11	s	RES-CHIP 22 5% 1/16W
R1308	1-219-570-11	s	METAL CHIP 10M 5% 1/10W
R1309	1-218-973-11	s	RES-CHIP 47K 5% 1/16W
R1310	1-218-933-11	s	RES-CHIP 22 5% 1/16W
R1311	1-218-933-11	s	RES-CHIP 22 5% 1/16W
R1312	1-218-933-11	s	RES-CHIP 22 5% 1/16W
R1313	1-218-933-11	s	RES-CHIP 22 5% 1/16W
R1314	1-218-949-11	s	RES-CHIP 470 5% 1/16W
R1315	1-218-941-81	s	RES-CHIP 100 5% 1/16W
R1316	1-218-941-81	s	RES-CHIP 100 5% 1/16W
R1317	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1318	1-218-941-81	s	RES-CHIP 100 5% 1/16W
R1320	1-218-957-11	s	RES-CHIP 2.2K 5% 1/16W
R1321	1-218-941-81	s	RES-CHIP 100 5% 1/16W
R1322	1-218-941-81	s	RES-CHIP 100 5% 1/16W
R1323	1-218-957-11	s	RES-CHIP 2.2K 5% 1/16W
R1324	1-218-953-11	s	RES-CHIP 1K 5% 1/16W
R1326	1-218-933-11	s	RES-CHIP 22 5% 1/16W
R1327	1-218-933-11	s	RES-CHIP 22 5% 1/16W
R1329	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1330	1-218-941-81	s	RES-CHIP 100 5% 1/16W
R1341	1-218-990-11	s	SHORT CHIP 0
R1344	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1347	1-218-990-11	s	SHORT CHIP 0
R1348	1-218-990-11	s	SHORT CHIP 0
R1349	1-218-990-11	s	SHORT CHIP 0
R1350	1-218-990-11	s	SHORT CHIP 0
R1351	1-218-990-11	s	SHORT CHIP 0
R1352	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1356	1-218-957-11	s	RES-CHIP 2.2K 5% 1/16W
R1357	1-218-990-11	s	SHORT CHIP 0
R1358	1-218-933-11	s	RES-CHIP 22 5% 1/16W
R1359	1-218-933-11	s	RES-CHIP 22 5% 1/16W
R1360	1-218-933-11	s	RES-CHIP 22 5% 1/16W
R1400	1-218-937-11	s	RES-CHIP 47 5% 1/16W
R1401	1-218-937-11	s	RES-CHIP 47 5% 1/16W
R1402	1-218-937-11	s	RES-CHIP 47 5% 1/16W
R1403	1-218-937-11	s	RES-CHIP 47 5% 1/16W
R1406	1-218-937-11	s	RES-CHIP 47 5% 1/16W
R1407	1-218-937-11	s	RES-CHIP 47 5% 1/16W
R1408	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1410	1-218-990-11	s	SHORT CHIP 0
R1411	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1412	1-218-937-11	s	RES-CHIP 47 5% 1/16W
R1413	1-218-937-11	s	RES-CHIP 47 5% 1/16W
R1414	1-218-937-11	s	RES-CHIP 47 5% 1/16W
R1417	1-218-957-11	s	RES-CHIP 2.2K 5% 1/16W
R1419	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1420	1-218-973-11	s	RES-CHIP 47K 5% 1/16W
R1421	1-218-953-11	s	RES-CHIP 1K 5% 1/16W
R1423	1-218-961-11	s	RES-CHIP 4.7K 5% 1/16W
R1424	1-218-961-11	s	RES-CHIP 4.7K 5% 1/16W
R1425	1-218-937-11	s	RES-CHIP 47 5% 1/16W
R1426	1-218-929-11	s	RES-CHIP 10 5% 1/16W
R1427	1-218-929-11	s	RES-CHIP 10 5% 1/16W
R1428	1-218-929-11	s	RES-CHIP 10 5% 1/16W
R1429	1-218-929-11	s	RES-CHIP 10 5% 1/16W

(C BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R1430	1-218-937-11	s	RES-CHIP 47 5% 1/16W
R1431	1-218-929-11	s	RES-CHIP 10 5% 1/16W
R1432	1-218-929-11	s	RES-CHIP 10 5% 1/16W
R1435	1-218-973-11	s	RES-CHIP 47K 5% 1/16W
R1436	1-218-973-11	s	RES-CHIP 47K 5% 1/16W
R1439	1-218-937-11	s	RES-CHIP 47 5% 1/16W
R1440	1-218-990-11	s	SHORT CHIP 0
R1442	1-218-953-11	s	RES-CHIP 1K 5% 1/16W
R1443	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1451	1-218-929-11	s	RES-CHIP 10 5% 1/16W
R1452	1-218-929-11	s	RES-CHIP 10 5% 1/16W
R1453	1-218-929-11	s	RES-CHIP 10 5% 1/16W
R1454	1-218-929-11	s	RES-CHIP 10 5% 1/16W
R1502	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1504	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1508	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1509	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1510	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1511	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1512	1-218-953-11	s	RES-CHIP 1K 5% 1/16W
R1513	1-218-990-11	s	SHORT CHIP 0
R1514	1-218-990-11	s	SHORT CHIP 0
R1515	1-218-990-11	s	SHORT CHIP 0
R1516	1-218-990-11	s	SHORT CHIP 0
R1517	1-218-990-11	s	SHORT CHIP 0
R1518	1-218-990-11	s	SHORT CHIP 0
R1519	1-218-990-11	s	SHORT CHIP 0
R1520	1-218-990-11	s	SHORT CHIP 0
R1521	1-218-990-11	s	SHORT CHIP 0
R1522	1-218-990-11	s	SHORT CHIP 0
R1523	1-218-990-11	s	SHORT CHIP 0
R1524	1-218-990-11	s	SHORT CHIP 0
R1525	1-218-941-81	s	RES-CHIP 100 5% 1/16W
R1526	1-216-823-11	s	METAL CHIP 1.5K 5% 1/10W
R1527	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1528	1-218-961-11	s	RES-CHIP 4.7K 5% 1/16W
R1529	1-216-823-11	s	METAL CHIP 1.5K 5% 1/10W
R1531	1-218-929-11	s	RES-CHIP 10 5% 1/16W
R1532	1-218-929-11	s	RES-CHIP 10 5% 1/16W
R1533	1-218-990-11	s	SHORT CHIP 0
R1534	1-208-717-11	s	METAL CHIP 27K 0.5% 1/16W
R1536	1-208-701-11	s	METAL CHIP 5.6K 0.5% 1/16W
R1537	1-208-715-11	s	METAL CHIP 22K 0.5% 1/16W
R1538	1-208-679-11	s	METAL CHIP 680 0.5% 1/16W
R1539	1-218-903-11	s	METAL CHIP 220K 0.5% 1/10W
R1540	1-208-697-11	s	METAL CHIP 3.9K 0.5% 1/16W
R1541	1-218-990-11	s	SHORT CHIP 0
R1602	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1603	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1604	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1605	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1610	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1611	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1612	1-218-953-11	s	RES-CHIP 1K 5% 1/16W
R1613	1-218-990-11	s	SHORT CHIP 0
R1614	1-218-990-11	s	SHORT CHIP 0
R1615	1-218-990-11	s	SHORT CHIP 0
R1616	1-218-990-11	s	SHORT CHIP 0
R1617	1-218-990-11	s	SHORT CHIP 0

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Ref. No. or Q'ty	Part No.	SP	Description
R1618	1-218-990-11	s	SHORT CHIP 0
R1619	1-218-990-11	s	SHORT CHIP 0
R1620	1-218-990-11	s	SHORT CHIP 0
R1621	1-218-990-11	s	SHORT CHIP 0
R1622	1-218-990-11	s	SHORT CHIP 0
R1623	1-218-990-11	s	SHORT CHIP 0
R1624	1-218-990-11	s	SHORT CHIP 0
R1625	1-218-941-81	s	RES-CHIP 100 5% 1/16W
R1626	1-216-823-11	s	METAL CHIP 1.5K 5% 1/10W
R1627	1-216-823-11	s	METAL CHIP 1.5K 5% 1/10W
R1628	1-218-929-11	s	RES-CHIP 10 5% 1/16W
R1629	1-218-929-11	s	RES-CHIP 10 5% 1/16W
R1630	1-218-990-11	s	SHORT CHIP 0
R1631	1-208-697-11	s	METAL CHIP 3.9K 0.5% 1/16W
R1632	1-218-990-11	s	SHORT CHIP 0
R1702	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1703	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1704	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1705	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1706	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1707	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1710	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1711	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1712	1-218-953-11	s	RES-CHIP 1K 5% 1/16W
R1713	1-218-990-11	s	SHORT CHIP 0
R1714	1-218-990-11	s	SHORT CHIP 0
R1715	1-218-990-11	s	SHORT CHIP 0
R1716	1-218-990-11	s	SHORT CHIP 0
R1717	1-218-990-11	s	SHORT CHIP 0
R1718	1-218-990-11	s	SHORT CHIP 0
R1719	1-218-990-11	s	SHORT CHIP 0
R1720	1-218-990-11	s	SHORT CHIP 0
R1721	1-218-990-11	s	SHORT CHIP 0
R1722	1-218-990-11	s	SHORT CHIP 0
R1723	1-218-990-11	s	SHORT CHIP 0
R1724	1-218-990-11	s	SHORT CHIP 0
R1725	1-218-941-81	s	RES-CHIP 100 5% 1/16W
R1726	1-216-823-11	s	METAL CHIP 1.5K 5% 1/10W
R1727	1-216-823-11	s	METAL CHIP 1.5K 5% 1/10W
R1728	1-218-929-11	s	RES-CHIP 10 5% 1/16W
R1729	1-218-929-11	s	RES-CHIP 10 5% 1/16W
R1730	1-218-990-11	s	SHORT CHIP 0
R1731	1-208-697-11	s	METAL CHIP 3.9K 0.5% 1/16W
R1732	1-218-990-11	s	SHORT CHIP 0
R1800	1-218-977-11	s	RES-CHIP 100K 5% 1/16W
R1801 *2	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1802	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1803	1-218-977-11	s	RES-CHIP 100K 5% 1/16W
R1804	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1805	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1806	1-208-699-11	s	METAL CHIP 4.7K 0.5% 1/16W
R1807	1-208-699-11	s	METAL CHIP 4.7K 0.5% 1/16W
R1808	1-208-699-11	s	METAL CHIP 4.7K 0.5% 1/16W
R1809	1-218-961-11	s	RES-CHIP 4.7K 5% 1/16W
R1810	1-218-957-11	s	RES-CHIP 2.2K 5% 1/16W
R1811	1-218-957-11	s	RES-CHIP 2.2K 5% 1/16W
R1812	1-218-961-11	s	RES-CHIP 4.7K 5% 1/16W
R1813	1-218-941-81	s	RES-CHIP 100 5% 1/16W
R1814	1-218-941-81	s	RES-CHIP 100 5% 1/16W

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Ref. No. or Q'ty	Part No.	SP	Description
R1815	1-218-941-81	s	RES-CHIP 100 5% 1/16W
R1816	1-218-941-81	s	RES-CHIP 100 5% 1/16W
R1817	1-218-961-11	s	RES-CHIP 4.7K 5% 1/16W
R1818	1-218-961-11	s	RES-CHIP 4.7K 5% 1/16W
R1819	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1820	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1821	1-218-973-11	s	RES-CHIP 47K 5% 1/16W
R1822	1-218-961-11	s	RES-CHIP 4.7K 5% 1/16W
R1823	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1824	1-218-961-11	s	RES-CHIP 4.7K 5% 1/16W
R1825	1-218-961-11	s	RES-CHIP 4.7K 5% 1/16W
R1826	1-218-961-11	s	RES-CHIP 4.7K 5% 1/16W
R1827	1-218-941-81	s	RES-CHIP 100 5% 1/16W
R1828	1-218-941-81	s	RES-CHIP 100 5% 1/16W
R1829	1-218-961-11	s	RES-CHIP 4.7K 5% 1/16W
R1831	1-218-961-11	s	RES-CHIP 4.7K 5% 1/16W
R1832	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1833	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1834	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1835	1-218-929-11	s	RES-CHIP 10 5% 1/16W
R1837	1-218-945-11	s	RES-CHIP 220 5% 1/16W
*2 R1838	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1839	1-218-973-11	s	RES-CHIP 47K 5% 1/16W
R1840	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1841	1-218-973-11	s	RES-CHIP 47K 5% 1/16W
R1844	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1845	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1846	1-218-941-81	s	RES-CHIP 100 5% 1/16W
R1847	1-218-941-81	s	RES-CHIP 100 5% 1/16W
R1848	1-218-990-11	s	SHORT CHIP 0
R1850	1-218-953-11	s	RES-CHIP 1K 5% 1/16W
R1851	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1852	1-218-990-11	s	SHORT CHIP 0
R1853	1-218-941-81	s	RES-CHIP 100 5% 1/16W
R1854	1-218-941-81	s	RES-CHIP 100 5% 1/16W
R1856	1-218-990-11	s	SHORT CHIP 0
R1857	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1858	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1859	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1860	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1861	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1862	1-218-941-81	s	RES-CHIP 100 5% 1/16W
R1863	1-218-941-81	s	RES-CHIP 100 5% 1/16W
R1864	1-218-961-11	s	RES-CHIP 4.7K 5% 1/16W
R1865	1-218-961-11	s	RES-CHIP 4.7K 5% 1/16W
R1866	1-218-961-11	s	RES-CHIP 4.7K 5% 1/16W
R1867	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1868	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1869	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1870	1-218-961-11	s	RES-CHIP 4.7K 5% 1/16W
R1871	1-218-961-11	s	RES-CHIP 4.7K 5% 1/16W
R1872	1-218-961-11	s	RES-CHIP 4.7K 5% 1/16W
*2 R1873	1-218-961-11	s	RES-CHIP 4.7K 5% 1/16W
R1874	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1875	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1876	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1877	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1878	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1879	1-218-941-81	s	RES-CHIP 100 5% 1/16W

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Ref. No. or Q'ty	Part No.	SP	Description
R1880	1-218-941-81	s	RES-CHIP 100 5% 1/16W
*2 R1881	1-218-937-11	s	RES-CHIP 47 5% 1/16W
*2 R1882	1-218-937-11	s	RES-CHIP 47 5% 1/16W
*2 R1885	1-218-990-11	s	SHORT CHIP 0
*2 R1886	1-218-990-11	s	SHORT CHIP 0
*2 R1887	1-218-990-11	s	SHORT CHIP 0
*2 R1888	1-218-990-11	s	SHORT CHIP 0
R1889	1-218-953-11	s	RES-CHIP 1K 5% 1/16W
R1890	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1891	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1892	1-218-977-11	s	RES-CHIP 100K 5% 1/16W
R1893	1-218-941-81	s	RES-CHIP 100 5% 1/16W
R1895	1-218-990-11	s	SHORT CHIP 0
R1896	1-218-941-81	s	RES-CHIP 100 5% 1/16W
R1897	1-218-941-81	s	RES-CHIP 100 5% 1/16W
R1898	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1899	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1900	1-218-941-81	s	RES-CHIP 100 5% 1/16W
R1912	1-218-990-11	s	SHORT CHIP 0
R1915	1-218-941-81	s	RES-CHIP 100 5% 1/16W
R1918	1-218-990-11	s	SHORT CHIP 0
R1920	1-218-943-11	s	RES-CHIP 150 5% 1/16W
R1922	1-218-953-11	s	RES-CHIP 1K 5% 1/16W
R1926	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1928	1-218-943-11	s	RES-CHIP 150 5% 1/16W
R1930	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1942	1-219-598-11	s	METAL CHIP 47K 0.5% 1/16W
R1943	1-208-701-11	s	METAL CHIP 5.6K 0.5% 1/16W
R1944	1-208-707-11	s	METAL CHIP 10K 0.5% 1/16W
R1945	1-219-598-11	s	METAL CHIP 47K 0.5% 1/16W
R1946	1-208-701-11	s	METAL CHIP 5.6K 0.5% 1/16W
R1947	1-208-707-11	s	METAL CHIP 10K 0.5% 1/16W
R1948	1-219-600-11	s	METAL CHIP 56K 0.5% 1/16W
R1949	1-208-699-11	s	METAL CHIP 4.7K 0.5% 1/16W
R1950	1-208-709-11	s	METAL CHIP 12K 0.5% 1/16W
R1951	1-208-928-11	s	RESISTOR,CHIP 51K (1005)
R1952	1-208-697-11	s	METAL CHIP 3.9K 0.5% 1/16W
R1953	1-208-707-11	s	METAL CHIP 10K 0.5% 1/16W
R1958	1-208-711-11	s	METAL CHIP 15K 0.5% 1/16W
R1959	1-208-711-11	s	METAL CHIP 15K 0.5% 1/16W
R1960	1-208-711-11	s	METAL CHIP 15K 0.5% 1/16W
R1961	1-208-711-11	s	METAL CHIP 15K 0.5% 1/16W
R1962	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1963	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1964	1-218-941-81	s	RES-CHIP 100 5% 1/16W
R1965	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1967	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1968	1-218-965-11	s	RES-CHIP 10K 5% 1/16W
R1969	1-218-953-11	s	RES-CHIP 1K 5% 1/16W
R1970	1-218-953-11	s	RES-CHIP 1K 5% 1/16W
R1971	1-218-953-11	s	RES-CHIP 1K 5% 1/16W
R1972	1-218-973-11	s	RES-CHIP 47K 5% 1/16W
R1973	1-218-973-11	s	RES-CHIP 47K 5% 1/16W
R1974	1-218-973-11	s	RES-CHIP 47K 5% 1/16W
R1975	1-218-973-11	s	RES-CHIP 47K 5% 1/16W
R1976	1-218-973-11	s	RES-CHIP 47K 5% 1/16W
R1977	1-218-973-11	s	RES-CHIP 47K 5% 1/16W
R1978	1-218-929-11	s	RES-CHIP 10 5% 1/16W
R1979	1-218-929-11	s	RES-CHIP 10 5% 1/16W

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Ref. No. or Q'ty	Part No.	SP	Description	
R1980	1-218-929-11	s	RES-CHIP 10 5% 1/16W	
R1981	1-218-965-11	s	RES-CHIP 10K 5% 1/16W	
R1982	1-218-965-11	s	RES-CHIP 10K 5% 1/16W	
R1983	1-218-965-11	s	RES-CHIP 10K 5% 1/16W	
R1984	1-218-965-11	s	RES-CHIP 10K 5% 1/16W	
R1985	1-218-965-11	s	RES-CHIP 10K 5% 1/16W	
R1986	1-218-965-11	s	RES-CHIP 10K 5% 1/16W	
R1987	1-218-965-11	s	RES-CHIP 10K 5% 1/16W	
R1988	1-218-965-11	s	RES-CHIP 10K 5% 1/16W	
R2000	1-218-990-11	s	SHORT CHIP 0	
R2002	1-208-695-11	s	METAL CHIP 3.3K 0.5% 1/16W	
R2004	1-218-981-11	s	RES-CHIP 220K 5% 1/16W	
R2005	1-208-695-11	s	METAL CHIP 3.3K 0.5% 1/16W	
R2006	1-208-713-11	s	METAL CHIP 18K 0.5% 1/16W	
R2007	1-208-703-11	s	METAL CHIP 6.8K 0.5% 1/16W	
R2008	1-218-905-11	s	METAL CHIP 270K 0.5% 1/10W	
R2009	1-208-683-11	s	METAL CHIP 1K 0.5% 1/16W	
R2010	1-208-683-11	s	METAL CHIP 1K 0.5% 1/16W	
R2011	1-208-683-11	s	METAL CHIP 1K 0.5% 1/16W	
R2012	1-218-911-11	s	METAL CHIP 470K 0.5% 1/10W	
R2013	1-208-689-11	s	METAL CHIP 1.8K 0.5% 1/16W	
R2014	1-208-707-11	s	METAL CHIP 10K 0.5% 1/16W	
R2015	1-218-911-11	s	METAL CHIP 470K 0.5% 1/10W	
R2016	1-208-683-11	s	METAL CHIP 1K 0.5% 1/16W	
R2017	1-208-703-11	s	METAL CHIP 6.8K 0.5% 1/16W	
R2018	1-208-679-11	s	METAL CHIP 680 0.5% 1/16W	
R2019	1-208-703-11	s	METAL CHIP 6.8K 0.5% 1/16W	
R2020	1-208-679-11	s	METAL CHIP 680 0.5% 1/16W	
R2021	1-208-707-11	s	METAL CHIP 10K 0.5% 1/16W	
R2022	1-208-683-11	s	METAL CHIP 1K 0.5% 1/16W	
R2023	1-208-687-11	s	METAL CHIP 1.5K 0.5% 1/16W	
R2024	1-208-695-11	s	METAL CHIP 3.3K 0.5% 1/16W	
R2025	1-208-707-11	s	METAL CHIP 10K 0.5% 1/16W	
R2027	1-208-695-11	s	METAL CHIP 3.3K 0.5% 1/16W	
R2028	1-218-965-11	s	RES-CHIP 10K 5% 1/16W	
R2029	1-218-961-11	s	RES-CHIP 4.7K 5% 1/16W	
R2030	1-208-703-11	s	METAL CHIP 6.8K 0.5% 1/16W	
R2031	1-208-699-11	s	METAL CHIP 4.7K 0.5% 1/16W	
R2032	1-208-695-11	s	METAL CHIP 3.3K 0.5% 1/16W	
R2033	1-218-990-11	s	SHORT CHIP 0	
R2034	1-208-699-11	s	METAL CHIP 4.7K 0.5% 1/16W	
R2035	1-208-695-11	s	METAL CHIP 3.3K 0.5% 1/16W	
R2036	1-218-953-11	s	RES-CHIP 1K 5% 1/16W	
R2037	1-218-973-11	s	RES-CHIP 47K 5% 1/16W	
R2038	1-218-973-11	s	RES-CHIP 47K 5% 1/16W	
R2039	1-218-929-11	s	RES-CHIP 10 5% 1/16W	
R2040	1-208-703-11	s	METAL CHIP 6.8K 0.5% 1/16W	
R2041	1-208-699-11	s	METAL CHIP 4.7K 0.5% 1/16W	
R2042	1-216-821-11	s	METAL CHIP 1K 5% 1/10W	
R2043	1-218-929-11	s	RES-CHIP 10 5% 1/16W	
R2044	1-208-713-11	s	METAL CHIP 18K 0.5% 1/16W	
R2100	1-218-965-11	s	RES-CHIP 10K 5% 1/16W	
R2102 *2	1-218-965-11	s	RES-CHIP 10K 5% 1/16W	
R2101	1-218-965-11	s	RES-CHIP 10K 5% 1/16W	
R2103	1-218-961-11	s	RES-CHIP 4.7K 5% 1/16W	
R2104	1-218-961-11	s	RES-CHIP 4.7K 5% 1/16W	
RB400	1-234-370-21	s	RES, NETWORK 22	(1005X4)
RB401	1-234-370-21	s	RES, NETWORK 22	(1005X4)

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Ref. No. or Q'ty	Part No.	SP	Description	
RB402	1-234-370-21	s	RES, NETWORK 22	(1005X4)
RB403	1-234-370-21	s	RES, NETWORK 22	(1005X4)
RB404	1-234-370-21	s	RES, NETWORK 22	(1005X4)
RB405	1-234-370-21	s	RES, NETWORK 22	(1005X4)
RB600	1-234-369-21	s	RES, NETWORK 10	(1005X4)
RB601	1-234-369-21	s	RES, NETWORK 10	(1005X4)
RB602	1-234-369-21	s	RES, NETWORK 10	(1005X4)
RB603	1-234-369-21	s	RES, NETWORK 10	(1005X4)
RB700	1-234-371-21	s	RES, NETWORK 47	(1005X4)
RB701	1-234-371-21	s	RES, NETWORK 47	(1005X4)
RB702	1-234-371-21	s	RES, NETWORK 47	(1005X4)
RB703	1-234-371-21	s	RES, NETWORK 47	(1005X4)
RB704	1-234-371-21	s	RES, NETWORK 47	(1005X4)
RB705	1-234-371-21	s	RES, NETWORK 47	(1005X4)
RB706	1-234-371-21	s	RES, NETWORK 47	(1005X4)
RB707	1-234-371-21	s	RES, NETWORK 47	(1005X4)
RB708	1-234-371-21	s	RES, NETWORK 47	(1005X4)
RB709	1-234-369-21	s	RES, NETWORK 10	(1005X4)
RB710	1-234-371-21	s	RES, NETWORK 47	(1005X4)
RB800	1-234-369-21	s	RES, NETWORK 10	(1005X4)
RB801	1-234-369-21	s	RES, NETWORK 10	(1005X4)
RB802	1-234-369-21	s	RES, NETWORK 10	(1005X4)
RB803	1-234-369-21	s	RES, NETWORK 10	(1005X4)
RB804	1-234-369-21	s	RES, NETWORK 10	(1005X4)
RB805	1-234-369-21	s	RES, NETWORK 10	(1005X4)
RB806	1-234-369-21	s	RES, NETWORK 10	(1005X4)
RB807	1-234-369-21	s	RES, NETWORK 10	(1005X4)
RB808	1-234-369-21	s	RES, NETWORK 10	(1005X4)
RB809	1-234-795-21	s	RES, NETWORK 0X4	(2010)
RB1000	1-234-381-21	s	RES, NETWORK 100K	(1005X4)
RB1001	1-234-381-21	s	RES, NETWORK 100K	(1005X4)
RB1002	1-234-381-21	s	RES, NETWORK 100K	(1005X4)
RB1003	1-234-381-21	s	RES, NETWORK 100K	(1005X4)
RB1004	1-234-381-21	s	RES, NETWORK 100K	(1005X4)
RB1005	1-234-381-21	s	RES, NETWORK 100K	(1005X4)
RB1006	1-234-381-21	s	RES, NETWORK 100K	(1005X4)
RB1007	1-234-381-21	s	RES, NETWORK 100K	(1005X4)
RB1008	1-234-381-21	s	RES, NETWORK 100K	(1005X4)
RB1009	1-234-381-21	s	RES, NETWORK 100K	(1005X4)
RB1010	1-234-381-21	s	RES, NETWORK 100K	(1005X4)
RB1011	1-234-381-21	s	RES, NETWORK 100K	(1005X4)
RB1100	1-234-370-21	s	RES, NETWORK 22	(1005X4)
RB1101	1-234-370-21	s	RES, NETWORK 22	(1005X4)
RB1102	1-234-370-21	s	RES, NETWORK 22	(1005X4)
RB1103	1-234-370-21	s	RES, NETWORK 22	(1005X4)
RB1104	1-234-370-21	s	RES, NETWORK 22	(1005X4)
RB1105	1-234-370-21	s	RES, NETWORK 22	(1005X4)
RB1106	1-234-370-21	s	RES, NETWORK 22	(1005X4)
RB1107	1-234-370-21	s	RES, NETWORK 22	(1005X4)
RB1108	1-234-370-21	s	RES, NETWORK 22	(1005X4)
RB1109	1-234-370-21	s	RES, NETWORK 22	(1005X4)
RB1110	1-234-370-21	s	RES, NETWORK 22	(1005X4)
RB1111	1-234-371-21	s	RES, NETWORK 47	(1005X4)
RB1112	1-234-371-21	s	RES, NETWORK 47	(1005X4)
RB1113	1-234-371-21	s	RES, NETWORK 47	(1005X4)
RB1114	1-234-371-21	s	RES, NETWORK 47	(1005X4)
RB1115	1-234-370-21	s	RES, NETWORK 22	(1005X4)
RB1116	1-234-370-21	s	RES, NETWORK 22	(1005X4)
RB1117	1-234-371-21	s	RES, NETWORK 47	(1005X4)

(C BOARD)

Ref. No. or Q'ty	Part No.	SP	Description	
RB1118	1-234-370-21	s	RES, NETWORK 22	(1005X4)
RB1119	1-234-371-21	s	RES, NETWORK 47	(1005X4)
RB1120	1-234-371-21	s	RES, NETWORK 47	(1005X4)
RB1121	1-234-371-21	s	RES, NETWORK 47	(1005X4)
RB1122	1-234-370-21	s	RES, NETWORK 22	(1005X4)
RB1123	1-234-371-21	s	RES, NETWORK 47	(1005X4)
RB1124	1-234-371-21	s	RES, NETWORK 47	(1005X4)
RB1125	1-234-370-21	s	RES, NETWORK 22	(1005X4)
RB1126	1-234-371-21	s	RES, NETWORK 47	(1005X4)
RB1127	1-234-370-21	s	RES, NETWORK 22	(1005X4)
RB1128	1-234-370-21	s	RES, NETWORK 22	(1005X4)
RB1129	1-234-370-21	s	RES, NETWORK 22	(1005X4)
RB1200	1-234-702-11	s	RES, NETWORK 68	(1005X4)
RB1201	1-234-702-11	s	RES, NETWORK 68	(1005X4)
RB1202	1-234-702-11	s	RES, NETWORK 68	(1005X4)
RB1203	1-234-702-11	s	RES, NETWORK 68	(1005X4)
RB1204	1-234-702-11	s	RES, NETWORK 68	(1005X4)
RB1205	1-234-702-11	s	RES, NETWORK 68	(1005X4)
RB1206	1-234-702-11	s	RES, NETWORK 68	(1005X4)
RB1207	1-234-702-11	s	RES, NETWORK 68	(1005X4)
RB1208	1-234-702-11	s	RES, NETWORK 68	(1005X4)
RB1209	1-234-702-11	s	RES, NETWORK 68	(1005X4)
RB1210	1-234-702-11	s	RES, NETWORK 68	(1005X4)
RB1211	1-234-702-11	s	RES, NETWORK 68	(1005X4)
RB1300	1-234-369-21	s	RES, NETWORK 10	(1005X4)
RB1301	1-234-369-21	s	RES, NETWORK 10	(1005X4)
RB1302	1-234-371-21	s	RES, NETWORK 47	(1005X4)
RB1303	1-234-371-21	s	RES, NETWORK 47	(1005X4)
RB1304	1-234-371-21	s	RES, NETWORK 47	(1005X4)
RB1305	1-234-371-21	s	RES, NETWORK 47	(1005X4)
RB1306	1-234-371-21	s	RES, NETWORK 47	(1005X4)
RB1307	1-234-371-21	s	RES, NETWORK 47	(1005X4)
RB1400	1-234-372-21	s	RES, NETWORK 100	(1005X4)
RB1401	1-234-372-21	s	RES, NETWORK 100	(1005X4)
RB1402	1-234-372-21	s	RES, NETWORK 100	(1005X4)
RB1403	1-234-372-21	s	RES, NETWORK 100	(1005X4)
RB1404	1-234-372-21	s	RES, NETWORK 100	(1005X4)
RB1405	1-234-372-21	s	RES, NETWORK 100	(1005X4)
RB1406	1-234-372-21	s	RES, NETWORK 100	(1005X4)
RB1407	1-234-372-21	s	RES, NETWORK 100	(1005X4)
RB1408	1-234-372-21	s	RES, NETWORK 100	(1005X4)
RB1409	1-234-369-21	s	RES, NETWORK 10	(1005X4)
RB1410	1-234-369-21	s	RES, NETWORK 10	(1005X4)
RB1411	1-234-380-21	s	RES, NETWORK 47K	(1005X4)
RB1412	1-234-380-21	s	RES, NETWORK 47K	(1005X4)
RB1413	1-234-369-21	s	RES, NETWORK 10	(1005X4)
RB1414	1-234-369-21	s	RES, NETWORK 10	(1005X4)
RB1415	1-234-371-21	s	RES, NETWORK 47	(1005X4)
RB1416	1-234-371-21	s	RES, NETWORK 47	(1005X4)
RB1417	1-234-380-21	s	RES, NETWORK 47K	(1005X4)
RB1418	1-234-380-21	s	RES, NETWORK 47K	(1005X4)
RB1500	1-234-370-21	s	RES, NETWORK 22	(1005X4)
RB1501	1-234-370-21	s	RES, NETWORK 22	(1005X4)
RB1600	1-234-370-21	s	RES, NETWORK 22	(1005X4)
RB1601	1-234-370-21	s	RES, NETWORK 22	(1005X4)
RB1700	1-234-370-21	s	RES, NETWORK 22	(1005X4)
RB1701	1-234-370-21	s	RES, NETWORK 22	(1005X4)
RB1800	1-234-372-21	s	RES, NETWORK 100	(1005X4)
RB1803	1-234-378-21	s	RES, NETWORK 10K	(1005X4)

(C BOARD)

Ref. No. or Q'ty	Part No.	SP	Description	
RB1804	1-234-378-21	s	RES, NETWORK 10K	(1005X4)
RB1806	1-234-372-21	s	RES, NETWORK 100	(1005X4)
RB1807	1-234-372-21	s	RES, NETWORK 100	(1005X4)
RB1808	1-234-372-21	s	RES, NETWORK 100	(1005X4)
RB1809	1-234-372-21	s	RES, NETWORK 100	(1005X4)
RB1810	1-234-372-21	s	RES, NETWORK 100	(1005X4)
RB1811	1-234-372-21	s	RES, NETWORK 100	(1005X4)
RB1812	1-234-372-21	s	RES, NETWORK 100	(1005X4)
RB1813	1-234-372-21	s	RES, NETWORK 100	(1005X4)
RB1814	1-234-372-21	s	RES, NETWORK 100	(1005X4)
RB1815	1-234-372-21	s	RES, NETWORK 100	(1005X4)
RB1816	1-234-372-21	s	RES, NETWORK 100	(1005X4)
RB1817	1-234-372-21	s	RES, NETWORK 100	(1005X4)
RB1818	1-234-372-21	s	RES, NETWORK 100	(1005X4)
RB1819	1-234-372-21	s	RES, NETWORK 100	(1005X4)
RB1820	1-234-372-21	s	RES, NETWORK 100	(1005X4)
RB1821	1-234-372-21	s	RES, NETWORK 100	(1005X4)
RB1822	1-234-372-21	s	RES, NETWORK 100	(1005X4)
RB1823	1-234-372-21	s	RES, NETWORK 100	(1005X4)
S1400	1-771-337-21	s	SWITCH, SLIDE	
TH1800	1-803-382-11	s	THERMISTOR (10K)	
TH1801	1-803-382-11	s	THERMISTOR (10K)	
TP504	1-535-757-11	s	CHIP, CHECKER	
TP1400	1-535-757-11	s	CHIP, CHECKER	
TP1401	1-535-757-11	s	CHIP, CHECKER	
TP1500	1-535-757-11	s	CHIP, CHECKER	
TP1501	1-535-757-11	s	CHIP, CHECKER	
TP1505	1-535-757-11	s	CHIP, CHECKER	
TP1600	1-535-757-11	s	CHIP, CHECKER	
TP1601	1-535-757-11	s	CHIP, CHECKER	
TP1700	1-535-757-11	s	CHIP, CHECKER	
TP1701	1-535-757-11	s	CHIP, CHECKER	
TP1800	1-535-757-11	s	CHIP, CHECKER	
TP2000	1-535-757-11	s	CHIP, CHECKER	
X200 *2	1-781-994-21	s	VIBRATOR, CRYSTAL	
X500	1-760-273-11	s	VIBRATOR, CRYSTAL	
X600	1-795-219-21	s	VIBRATOR, CRYSTAL	
X900	1-795-416-21	s	VIBRATOR, CRYSTAL	
X1000	1-795-416-21	s	VIBRATOR, CRYSTAL	
X1300	1-813-326-21	s	VIBRATOR, CRYSTAL	
X1301	1-813-326-21	s	VIBRATOR, CRYSTAL	
X1800	1-813-326-21	s	VIBRATOR, CRYSTAL	

F BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-1076-324-A	s	MOUNTED CIRCUIT BOARD, F
CN10	⚠ 1-779-658-11	o	PIN, CONNECTOR (PC BOARD) 4P
CN11	⚠ 1-691-960-11	o	PIN, CONNECTOR (PC BOARD) 3P
CN12	⚠ 1-691-756-11	o	PIN, CONNECTOR (PC BOARD) 2P
CN13	⚠ 1-691-961-11	o	PIN, CONNECTOR (PC BOARD) 3P
CN14	⚠ 1-779-658-11	o	PIN, CONNECTOR (PC BOARD) 4P
F10	⚠ 1-576-659-11	s	FUSE 5A 250V

GA BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-1070-686-A	s	MOUNTED CIRCUIT BOARD, GA
2pcs	4-382-854-11	s	SCREW (M3X10), P, SW (+)
C100	⚠ 1-165-530-31	s	MYLAR 0.47UF 10 250V
C101	⚠ 1-113-900-11	s	CERAMIC 470PF 10.00% 250V
C102	⚠ 1-113-900-11	s	CERAMIC 470PF 10.00% 250V
C103	⚠ 1-165-529-31	s	MYLAR 0.22UF 10 250V
C105	1-100-915-11	s	MYLAR 0.47UF 10% 450V
C106	⚠ 1-107-680-91	s	ELECT 22UF 20.00% 450V
C107	1-107-974-11	s	CERAMIC 47PF 5.00% 2KV
C108	1-126-601-11	s	ELECT CHIP 2.2UF 20.00% 50V
C109	1-162-964-11	s	CERAMI CHIP 0.001UF 10.00% 50V
C110	1-107-905-11	s	ELECT 4.7UF 20.00% 50V
C111	1-107-826-11	s	CERAMIC CHIP 0.1UF 10.00% 16V
C112	1-113-900-11	s	CERAMIC 470PF 10.00% 16V 250V
C113	1-115-710-91	s	ELECT 0.001F 20.00% 6.3V
C115	1-107-826-11	s	CERAMIC CHIP 0.1UF 10.00% 16V 16V
C116	1-107-826-11	s	CERAMIC CHIP 0.1UF 10.00% 16V 16V
C117	1-107-826-11	s	CERAMIC CHIP 0.1UF 10.00% 16V 16V
C118	1-115-733-11	s	ELECT 470UF 20.00% 10V
C119	1-165-908-11	s	CERAMIC CHIP 1UF 10% 10V
C120	1-165-908-11	s	CERAMIC CHIP 1UF 10% 10V
C121	1-162-964-11	s	CERAMIC CHIP 0.001UF 10.00% 50V
C300	1-137-639-11	s	MYLAR 0.47UF 10% 450V
C301	1-117-228-11	s	MYLAR 2.2UF 10.00% 16V 450V
C302	1-104-332-11	s	CERAMIC 470PF 10.00% 16V 2KV
C303	1-162-927-11	s	CERAMIC CHIP 100PF 5.00% 50V
C304	1-107-826-11	s	CERAMIC CHIP 0.1UF 10.00% 16V 16V
C305	1-127-715-91	s	CERAMIC CHIP 0.22UF 10% 16V
C306	1-107-909-11	s	ELECT 47UF 20.00% 50V
C307	1-125-898-91	s	CERAMIC CHIP 0.22UF 10.00% 50V
C308	1-117-751-11	s	ELECT(BLOCK) 220UF 20.00% 450V
CN100	⚠ 1-691-960-11	o	PIN, CONNECTOR (PC BOARD) 3P
CN101	1-779-884-11	s	CONNECTOR 4P
CN300	⚠ 1-779-658-11	o	PIN, CONNECTOR (PC BOARD) 4P
CN301	⚠ 1-779-658-11	o	PIN, CONNECTOR (PC BOARD) 4P
D100	⚠ 6-500-839-01	s	DIODE D1UBA80
D101	8-719-404-50	s	DIODE MA111-TX
D103	8-719-404-50	s	DIODE MA111-TX
D104	8-719-036-94	s	DIODE RD5.6SB-T1
D105	8-719-077-42	s	DIODE BZT03-C180
D106	6-500-849-01	s	DIODE ERA22-08KFLB
D107	8-719-055-33	s	DIODE D1FL40
D108	8-719-055-30	s	DIODE D1FS4A-TA
D109	8-719-083-85	s	DIODE UDZSTE-1722B
D300	⚠ 8-719-066-75	s	DIODE D6SB80
D301	8-719-056-48	s	DIODE 1SS388(TPL3)
D302	8-719-304-63	s	DIODE RM11C
FB100	1-216-295-91	s	SHORT CHIP 0
FB102	1-469-670-21	o	FERRITE 0UH
FB103	1-414-921-11	s	FERRITE 0UH
FB300	1-410-397-21	s	FERRITE 1.1UH
IC100	6-600-279-01	s	IC STR-A6169
IC101	8-759-183-53	s	IC TL431CPK-E2
IC102	6-702-302-01	s	IC TK11133CSCL-G
IC300	8-749-015-27	s	IC MZ1540
L100	⚠ 1-456-134-21	s	COIL, LINE FILTER
L101	⚠ 1-406-977-21	s	INDUCTOR 100UH

(GA BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
L102	1-416-510-21	s	INDUCTOR 100UH
L103	⚠ 1-406-977-21	s	INDUCTOR 100UH
L300	⚠ 1-419-764-11	s	INDUCTOR 330UH
L301	⚠ 1-456-133-31	s	INDUCTOR 200UH
PH100	⚠ 8-749-016-82	s	PHOTO COUPLER PC123GY2
Q100	8-729-230-49	s	TRANSISTOR 2SC2712-YG
Q101	8-729-230-27	s	TRANSISTOR 2SA1213Y-TE12L
R100	⚠ 1-219-759-11	s	METAL 1M 5% 1/2W
R102	1-218-232-91	s	RES-CHIP 4.7 10% 1/2W
R103	1-218-232-91	s	RES-CHIP 4.7 10% 1/2W
R104	1-249-393-11	s	CARBON 10 5% 1/4W
R105	1-216-817-11	s	METAL CHIP 470 5% 1/10W
R106	1-216-829-11	s	METAL CHIP 4.7K 5% 1/10W
R107	1-216-839-11	s	METAL CHIP 33K 5% 1/10W
R108	1-218-857-11	s	METAL CHIP 2.7K 0.5% 1/10W
R109	1-218-863-11	s	METAL CHIP 4.7K 0.5% 1/10W
R110	1-216-821-11	s	METAL CHIP 1K 5% 1/10W
R111	1-211-981-11	s	METAL CHIP 33 0.5% 1/10W
R112	1-216-821-11	s	METAL CHIP 1K 5% 1/10W
R113	1-216-833-11	s	METAL CHIP 10K 5% 1/10W
R300	1-216-833-11	s	METAL CHIP 10K 5% 1/10W
R301	1-245-415-11	s	METAL 0.15 10% 5W
RY100	⚠ 1-755-356-11	s	RELAY
T100	⚠ 1-443-299-11	s	CONVERTER TRANSFORMER (SBT)
TH100	⚠ 1-803-586-41	s	THERMISTOR
TH101	⚠ 1-810-509-11	s	THERMISTOR
VDR100	⚠ 1-803-830-11	s	VARISTOR (ERZV14D621)

GB BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-1070-687-A	s	MOUNTED CIRCUIT BOARD, GB
C350	1-162-970-11	s	CERAMIC CHIP 0.01UF 10.00% 25V
C351	1-136-479-11	s	CAPACITOR FILM 0.001MF/100V PP
C352	1-127-692-11	s	AP, CHIP CERAMIC 10MF B 3216
C353	1-109-994-11	s	CERAMIC CHIP 2.2UF 10.00% 10V
C354	1-162-970-11	s	CERAMIC CHIP 0.01UF 10.00% 25V
C355	1-107-911-11	s	ELECT 220UF 20.00% 50V
C356	1-130-495-00	s	CAPACITOR FILM 0.1MF/50V PETP
C357	1-126-967-11	s	ELECT 47UF 20.00% 50V
C358	1-135-834-91	s	CERAMIC CHIP 2.2E+06PF 6.3V
C359	1-137-754-82	s	FILM 6800PF 3% 800V
C360	1-107-911-11	s	ELECT 220UF 20.00% 50V
C361	1-115-339-11	s	CERAMIC CHIP 0.1UF 10.00% 50V
C362	1-126-967-11	s	ELECT 47UF 20.00% 50V
C400	⚠ 1-113-900-11	s	CERAMIC 470PF 10.00% 250V
C401	1-127-820-11	s	CERAMIC CHIP 4.7UF 10% 16V
C402	1-107-826-11	s	CERAMIC CHIP 0.1UF 10.00% 16V
C403	1-128-946-11	s	CAP, ELECT 2200MF / 10V
C404	1-107-826-11	s	CERAMIC CHIP 0.1UF 10.00% 16V
C405	1-107-826-11	s	CERAMIC CHIP 0.1UF 10.00% 16V
C406	1-115-789-11	s	ELECT 0.001F 20.00% 25V
C407	1-115-789-11	s	ELECT 0.001F 20.00% 25V
C408	1-107-826-11	s	CERAMIC CHIP 0.1UF 10.00% 16V
C409	1-107-826-11	s	CERAMIC CHIP 0.1UF 10.00% 16V
C410	1-164-230-11	s	CERAMIC CHIP 220PF 5.00% 50V
C411	1-164-230-11	s	CERAMIC CHIP 220PF 5.00% 50V
C412	1-162-927-11	s	CERAMIC CHIP 100PF 5.00% 50V
C413	1-162-927-11	s	CERAMIC CHIP 100PF 5.00% 50V
C414	1-125-891-11	s	CERAMIC CHIP 0.47UF 10.00% 10V
C415	1-107-826-11	s	CERAMIC CHIP 0.1UF 10.00% 16V
C416	1-162-964-11	s	CERAMIC CHIP 0.001UF 10.00% 50V
C417	1-162-964-11	s	CERAMIC CHIP 0.001UF 10.00% 50V
C418	1-126-205-11	s	ELECT CHIP 47UF 20.00% 6.3V
C419	1-107-826-11	s	CERAMIC CHIP 0.1UF 10.00% 16V
C420	1-162-964-11	s	CERAMIC CHIP 0.001UF 10.00% 50V
C421	1-162-964-11	s	CERAMIC CHIP 0.001UF 10.00% 50V
C422	1-164-156-11	s	CERAMIC CHIP 0.1UF 25V
C423	1-125-837-91	s	CERAMIC CHIP 1UF 10% 6.3V
C424	1-164-156-11	s	CERAMIC CHIP 0.1UF 25V
C425	1-117-720-11	s	CERAMIC CHIP 4.7UF 10V
C426	1-107-826-11	s	CERAMIC CHIP 0.1UF 10.00% 16V
C427	1-135-960-91	s	CERAMIC CHIP 10UF 10% 25V
C428	1-100-421-21	s	ELECT CHIP 220UF 20% 6.3V
C429	1-100-421-21	s	ELECT CHIP 220UF 20% 6.3V
CN350	⚠ 1-779-658-11	o	PIN, CONNECTOR (PC BOARD) 4P
CN400	1-764-782-11	o	HOUSING, CONNECTOR 24P
D350	8-719-107-13	s	DIODE RD18M-T1B1
D351	8-719-404-50	s	DIODE MA111-TX
D352	8-719-979-64	s	DIODE UF4005PKG23
D353	8-719-118-12	s	DIODE RD33M-T1B
D354	8-719-073-52	s	DIODE D2FS6-TA
D355	8-719-055-30	s	DIODE D1FS4A-TA
D400	8-719-404-50	s	DIODE MA111-TX
D401	8-719-510-09	s	DIODE D10SC6M
D402	8-719-510-12	s	DIODE D10SC4M
D403	8-719-106-23	s	DIODE RD7.5M-B2
D404	8-719-106-23	s	DIODE RD7.5M-B2

(GB BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
D405	8-719-106-23	s	DIODE RD7.5M-B2
D406	8-719-510-09	s	DIODE D10SC6M
D407	8-719-404-50	s	DIODE MA111-TX
D408	8-719-404-50	s	DIODE MA111-TX
D409	8-719-404-50	s	DIODE MA111-TX
D410	8-719-404-50	s	DIODE MA111-TX
D411	8-719-404-50	s	DIODE MA111-TX
D412	8-719-404-50	s	DIODE MA111-TX
D413	8-719-404-50	s	DIODE MA111-TX
D414	8-719-404-50	s	DIODE MA111-TX
D415	8-719-404-50	s	DIODE MA111-TX
D416	8-719-056-48	s	DIODE 1SS388(TPL3)
D417	8-719-056-48	s	DIODE 1SS388(TPL3)
D418	8-719-404-50	s	DIODE MA111-TX
D419	8-719-404-50	s	DIODE MA111-TX
D420	8-719-404-50	s	DIODE MA111-TX
FB400	1-469-670-21	o	FERRITE 0UH
FB401	1-414-921-11	s	FERRITE 0UH
FB402	1-469-670-21	o	FERRITE 0UH
FB403	1-414-921-11	s	FERRITE 0UH
FB404	1-469-670-21	o	FERRITE 0UH
FB405	1-469-670-21	o	FERRITE 0UH
FB406	1-469-670-21	o	FERRITE 0UH
FB407	1-410-397-21	s	FERRITE 1.1UH
FL402	1-234-494-21	s	FILTER, EMI REMOVAL (SMD)
FL403	1-234-494-21	s	FILTER, EMI REMOVAL (SMD)
IC350	6-705-768-01	s	IC MCZ3001UB
IC351	8-759-643-48	s	IC BA00ASFP-E2
IC400	8-759-066-55	s	IC TA75W393FU
IC401	8-759-388-23	s	IC TL431BCDR2
IC402	6-704-954-01	s	IC AIC1117A-50PYJTR
IC403	6-707-021-01	s	IC LTC3728LXCUH#TR-R4
L400	1-416-949-21	s	INDUCTOR 15UH
L401	1-416-949-21	s	INDUCTOR 15UH
PH400	⚠ 8-749-016-82	s	PHOTO COUPLER PC123GY2
PH401	⚠ 8-749-016-82	s	PHOTO COUPLER PC123GY2
PH402	⚠ 8-749-016-82	s	PHOTO COUPLER PC123GY2
Q350	8-729-230-27	s	TRANSISTOR 2SA1213Y-TE12L
Q351	⚠ 8-729-052-29	s	TRANSISTOR 2SK2876-01MR-F122
Q352	⚠ 8-729-052-29	s	TRANSISTOR 2SK2876-01MR-F122
Q353	8-729-216-22	s	TRANSISTOR 2SA1162-G
Q354	8-729-230-49	s	TRANSISTOR 2SC2712-YG
Q400	8-729-230-49	s	TRANSISTOR 2SC2712-YG
Q401	8-729-230-49	s	TRANSISTOR 2SC2712-YG
Q402	6-550-596-01	s	TRANSISTOR FDC658P
Q403	6-550-596-01	s	TRANSISTOR FDC658P
Q404	6-550-596-01	s	TRANSISTOR FDC658P
Q405	8-729-054-68	s	TRANSISTOR FDS6986S
Q406	8-729-054-68	s	TRANSISTOR FDS6986S
Q407	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q408	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q409	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q410	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q411	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
R351	1-216-836-11	s	METAL CHIP 18K 5% 1/10W
R352	1-218-873-11	s	METAL CHIP 12K 0.5% 1/10W

(GB BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R353	1-216-825-11	s	METAL CHIP 2.2K 5% 1/10W
R354	1-218-843-11	s	METAL CHIP 680 0.5% 1/10W
R355	1-216-809-11	s	METAL CHIP 100 5% 1/10W
R356	1-216-823-11	s	METAL CHIP 1.5K 5% 1/10W
R357	1-249-389-11	s	CARBON 4.7 5% 1/4W
R358	1-218-877-11	s	METAL CHIP 18K 0.5% 1/10W
R359	1-220-338-11	s	RES-CHIP 330K 5% 1/2W
R360	1-220-338-11	s	RES-CHIP 330K 5% 1/2W
R361	1-220-338-11	s	RES-CHIP 330K 5% 1/2W
R362	1-249-417-11	s	CARBON 1K 5% 1/4W
R363	1-216-797-11	s	METAL CHIP 10 5% 1/10W
R364	1-216-797-11	s	METAL CHIP 10 5% 1/10W
R365	1-216-815-11	s	METAL CHIP 330 5% 1/10W
R366	1-216-833-11	s	METAL CHIP 10K 5% 1/10W
R367	1-216-833-11	s	METAL CHIP 10K 5% 1/10W
R368	1-202-933-61	s	RESISTOR, FUSE 0.1 1/2W
R369	1-243-803-71	s	METAL OXIDE 0.33 5% 1W
R371	1-216-841-11	s	METAL CHIP 47K 5% 1/10W
R372	1-216-833-11	s	METAL CHIP 10K 5% 1/10W
R373	1-216-821-11	s	METAL CHIP 1K 5% 1/10W
R374	1-216-829-11	s	METAL CHIP 4.7K 5% 1/10W
R375	1-216-833-11	s	METAL CHIP 10K 5% 1/10W
R376	1-216-845-11	s	METAL CHIP 100K 5% 1/10W
R378	1-216-842-11	s	METAL CHIP 56K 5% 1/10W
R379	1-216-841-11	s	METAL CHIP 47K 5% 1/10W
R380	1-216-825-11	s	METAL CHIP 2.2K 5% 1/10W
R400	1-216-845-11	s	METAL CHIP 100K 5% 1/10W
R401	1-216-821-11	s	METAL CHIP 1K 5% 1/10W
R402	1-216-821-11	s	METAL CHIP 1K 5% 1/10W
R403	1-216-845-11	s	METAL CHIP 100K 5% 1/10W
R404	1-216-833-11	s	METAL CHIP 10K 5% 1/10W
R405	1-216-829-11	s	METAL CHIP 4.7K 5% 1/10W
R406	1-216-825-11	s	METAL CHIP 2.2K 5% 1/10W
R407	1-216-833-11	s	METAL CHIP 10K 5% 1/10W
R408	1-216-839-11	s	METAL CHIP 33K 5% 1/10W
R409	1-216-833-11	s	METAL CHIP 10K 5% 1/10W
R410	1-216-827-11	s	METAL CHIP 3.3K 5% 1/10W
R411	1-216-817-11	s	METAL CHIP 470 5% 1/10W
R412	1-216-837-11	s	METAL CHIP 22K 5% 1/10W
R413	1-216-833-11	s	METAL CHIP 10K 5% 1/10W
R414	1-216-833-11	s	METAL CHIP 10K 5% 1/10W
R415	1-216-833-11	s	METAL CHIP 10K 5% 1/10W
R416	1-218-859-11	s	METAL CHIP 3.3K 0.5% 1/10W
R417	1-216-833-11	s	METAL CHIP 10K 5% 1/10W
R418	1-216-833-11	s	METAL CHIP 10K 5% 1/10W
R419	1-218-861-11	s	METAL CHIP 3.9K 0.5% 1/10W
R420	1-218-857-11	s	METAL CHIP 2.7K 0.5% 1/10W
R421	1-218-855-11	s	METAL CHIP 2.2K 0.5% 1/10W
R422	1-218-887-11	s	METAL CHIP 47K 0.5% 1/10W
R423	1-218-863-11	s	METAL CHIP 4.7K 0.5% 1/10W
R424	1-218-863-11	s	METAL CHIP 4.7K 0.5% 1/10W
R425	1-218-887-11	s	METAL CHIP 47K 0.5% 1/10W
R426	1-218-887-11	s	METAL CHIP 47K 0.5% 1/10W
R427	1-216-827-11	s	METAL CHIP 3.3K 5% 1/10W
R428	1-216-833-11	s	METAL CHIP 10K 5% 1/10W
R429	1-216-864-11	s	SHORT CHIP 0
R430	1-216-841-11	s	METAL CHIP 47K 5% 1/10W
R431	1-218-895-11	s	METAL CHIP 100K 0.5% 1/10W
R432	1-218-899-11	s	METAL CHIP 150K 0.5% 1/16W

(GB BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R433	1-216-809-11	s	METAL CHIP 100 5% 1/10W
R434	1-216-833-11	s	METAL CHIP 10K 5% 1/10W
R435	1-216-833-11	s	METAL CHIP 10K 5% 1/10W
R436	1-216-841-11	s	METAL CHIP 47K 5% 1/10W
R437	1-216-827-11	s	METAL CHIP 3.3K5% 1/10W
R438	1-216-833-11	s	METAL CHIP 10K 5% 1/10W
R439	1-216-797-11	s	METAL CHIP 10 5% 1/10W
R440	1-220-915-91	s	METAL CHIP 0.033 2% 1/4W
R441	1-240-038-91	s	METAL CHIP 0.022 2% 1/4W
R442	1-216-835-11	s	METAL CHIP 15K 5% 1/10W
R443	1-216-835-11	s	METAL CHIP 15K 5% 1/10W
R444	1-216-829-11	s	METAL CHIP 4.7K 5% 1/10W
R445	1-216-835-11	s	METAL CHIP 15K 5% 1/10W
R446	1-216-829-11	s	METAL CHIP 4.7K 5% 1/10W
R447	1-216-829-11	s	METAL CHIP 4.7K 5% 1/10W
R448	1-216-833-11	s	METAL CHIP 10K 5% 1/10W
R449	1-216-833-11	s	METAL CHIP 10K 5% 1/10W
R450	1-216-833-11	s	METAL CHIP 10K 5% 1/10W
R451	1-216-833-11	s	METAL CHIP 10K 5% 1/10W
R452	1-218-867-11	s	METAL CHIP 6.8K 0.5% 1/10W
R453	1-218-867-11	s	METAL CHIP 6.8K 0.5% 1/10W
R454	1-216-805-11	s	METAL CHIP 47 5% 1/10W
R455	1-216-805-11	s	METAL CHIP 47 5% 1/10W
R456	1-216-817-11	s	METAL CHIP 470 5% 1/10W
R457	1-216-817-11	s	METAL CHIP 470 5% 1/10W
T300	⚠ 1-437-301-31	s	TRANSFORMER, CONVERTER (PIT)

HA BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-1057-969-A	s	MOUNTED CIRCUIT BOARD, HA
C81	1-125-777-11	s	CERAMIC CHIP 0.1UF 10.00% 10V
CN80	1-770-625-21	s	PIN, CONNECTOR 8P
D80	8-719-045-61	s	DIODE SEC1901C
D81	8-719-045-61	s	DIODE SEC1901C
D82	8-719-045-51	s	DIODE SEC2422C
D83	8-719-045-53	s	DIODE SEC1801C
D84	8-719-914-44	s	DIODE DAP202K-T-146
D85	8-719-914-43	s	DIODE DAN202K-T-146
D86	8-719-914-44	s	DIODE DAP202K-T-146
D87	8-719-914-44	s	DIODE DAP202K-T-146
D89	8-719-914-43	s	DIODE DAN202K-T-146
D90	8-719-914-44	s	DIODE DAP202K-T-146
D91	8-719-914-43	s	DIODE DAN202K-T-146
Q80	8-729-028-91	s	TRANSISTOR DTA144EUA-T106
Q81	8-729-028-91	s	TRANSISTOR DTA144EUA-T106
Q82	8-729-040-87	s	TRANSISTOR 2SJ463A-T1
Q83	8-729-028-91	s	TRANSISTOR DTA144EUA-T106
Q84	8-729-028-91	s	TRANSISTOR DTA144EUA-T106
Q85	8-729-028-91	s	TRANSISTOR DTA144EUA-T106
R89	1-218-941-81	s	RES-CHIP 100 5% 1/16W
R90	1-218-941-81	s	RES-CHIP 100 5% 1/16W
R91	1-218-941-81	s	RES-CHIP 100 5% 1/16W
R92	1-218-973-11	s	RES-CHIP 47K 5% 1/16W
R93	1-218-941-81	s	RES-CHIP 100 5% 1/16W
R94	1-218-941-81	s	RES-CHIP 100 5% 1/16W

HB BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-1057-970-A	s	MOUNTED CIRCUIT BOARD, HB
C060	1-164-156-11	s	CERAMIC CHIP 0.1UF 25V
CN60	1-770-620-21	s	PIN, CONNECTOR 3P
D60	8-719-914-44	s	DIODE DAP202K-T-146
D61	8-719-914-43	s	DIODE DAN202K-T-146
R60	1-216-838-11	s	METAL CHIP 27K 5% 1/10W
R61	1-216-834-11	s	METAL CHIP 12K 5% 1/10W
R62	1-218-867-11	s	METAL CHIP 6.8K 5% 1/10W
R63	1-216-828-11	s	METAL CHIP 3.9K 5% 1/10W
R64	1-216-826-11	s	METAL CHIP 2.7K 5% 1/10W
R65	1-216-825-11	s	METAL CHIP 2.2K 5% 1/10W
R66	1-216-823-11	s	METAL CHIP 1.5K 5% 1/10W
R67	1-216-824-11	s	METAL CHIP 1.8K 5% 1/10W
S60	1-786-651-11	s	TACTILE SWITCH
S61	1-771-105-11	s	SWITCH, TACTILE
S62	1-771-105-11	s	SWITCH, TACTILE
S63	1-771-105-11	s	SWITCH, TACTILE

L BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-1057-962-A	s	MOUNTED CIRCUIT BOARD, L
C001	1-107-820-11	s	CERAMIC CHIP 0.1UF 6V
CN001	1-770-620-21	s	PIN, CONNECTOR 3P
D001	8-719-084-01	s	DIODE (LED) NSCW215T
R001	1-218-941-81	s	RES-CHIP 100 5% 1/16W

NF BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-1057-960-A	s	MOUNTED CIRCUIT BOARD, NF
C40	1-127-820-11	s	CAPACITOR, SQUARE CHIP 4.7MF
CN40	1-127-820-11	s	CPIN, CONNECTOR 4P
IC40	1-125-777-11	s	IC RS-790-T
R040	1-107-826-11	s	METAL CHIP 47 5% 1/10W
R041	1-164-936-11	s	CMETAL CHIP 100 5% 1/10W

Q BOARD (FOR VPL-HS51)

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-1086-165-A	s	MOUNTED CIRCUIT BOARD, Q
C5000	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C5002	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C5003	1-128-004-11	s	CAPACITOR ELECT 10MF/16V(CHIP)
C5004	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C5005	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C5006	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C5007	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C5008	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C5009	1-126-205-11	s	CAPACITOR,ELECT 47MF/6.3V
C5010	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C5011	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C5012	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C5013	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C5014	1-126-205-11	s	CAPACITOR,ELECT 47MF/6.3V
C5015	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C5016	1-126-205-11	s	CAPACITOR,ELECT 47MF/6.3V
C5017	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C5018	1-126-205-11	s	CAPACITOR,ELECT 47MF/6.3V
C5019	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C5020	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C5021	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C5022	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C5023	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C5024	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C5025	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C5026	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C5027	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C5028	1-126-205-11	s	CAPACITOR,ELECT 47MF/6.3V
C5029	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C5030	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C5031	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C5032	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C5033	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C5034	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C5040	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C6003	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C6004	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C6005	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C6006	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C6007	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C6008	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C6009	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C6010	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C6011	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C6012	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C6013	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C6014	1-128-004-11	s	CAPACITOR ELECT 10MF/16V(CHIP)
C6015	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C6016	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C6017	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C6018	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C6019	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C6020	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C6021	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C6022	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C6024	1-164-941-11	s	CAPACITOR,CHIP CERAMIC 4700/16V

(Q BOARD (FOR VPL-HS51))

Ref. No. or Q'ty	Part No.	SP	Description
CN5000	1-815-187-11	s	JACK, MODULAR
CN5002	1-770-625-21	s	PIN, CONNECTOR 8P
CN6000	1-569-775-11	o	PIN, CONNECTOR
D5001	8-719-421-69	s	DIODE MA133
D5002	8-719-421-69	s	DIODE MA133
D5003	8-719-421-69	s	DIODE MA133
D5004	8-719-421-69	s	DIODE MA133
D5006	8-719-941-86	s	DIODE DAN202U
D6000	8-719-045-61	s	DIODE SEC1901C
FB5000	1-414-921-11	s	INDUCTOR, FERRITE BEAD
FB5001	1-414-921-11	s	INDUCTOR, FERRITE BEAD
FB5002	1-469-670-11	o	FERRITE, EMI (SMD)
FB5003	1-414-921-11	s	INDUCTOR, FERRITE BEAD
FB5004	1-414-921-11	s	INDUCTOR, FERRITE BEAD
FB5005	1-414-921-11	s	INDUCTOR, FERRITE BEAD
FB5006	1-414-921-11	s	INDUCTOR, FERRITE BEAD
FB5007	1-469-670-11	o	FERRITE, EMI (SMD)
FB5008	1-469-670-11	o	FERRITE, EMI (SMD)
FB5009	1-414-921-11	s	INDUCTOR, FERRITE BEAD
FB5010	1-414-921-11	s	INDUCTOR, FERRITE BEAD
FB6000	1-414-921-11	s	INDUCTOR, FERRITE BEAD
IC5001	6-704-953-01	s	IC AIC1117A-33PYJTR
IC5002	6-704-843-01	s	IC AIC1117A-PEJTR
IC5003	6-706-155-01	s	IC MT48LC2M32B2P-6-Y14W
IC6002	6-705-177-01	s	IC W95640-WDW6T
IC6004	6-703-225-01	s	IC S-80928CNMC-G8YT2G
Q6000	6-550-549-01	s	TRANSISTOR DTC114EUAFT106
R5000	1-218-935-11	s	RESISTOR,CHIP 33 1/16W (1005)
R5001	1-218-965-11	s	RESISTOR, CHIP 10K 1/16W
R5002	1-218-947-11	s	RESISTOR, CHIP 330 1/16W
R5003	1-218-947-11	s	RESISTOR, CHIP 330 1/16W
R5005	1-218-990-11	s	RESISTOR,CHIP 0 1/16W (1005)
R5006	1-208-653-11	s	RESISTOR CHIP 56 1/16W (1005)
R5007	1-208-695-11	s	RESISTOR CHIP 3.3K 1/16W(1005)
R5008	1-208-653-11	s	RESISTOR CHIP 56 1/16W (1005)
R5009	1-208-695-11	s	RESISTOR CHIP 3.3K 1/16W(1005)
R5010	1-208-707-11	s	RESISTOR,CHIP 10K 1/16W (1005)
R5011	1-218-990-11	s	RESISTOR,CHIP 0 1/16W (1005)
R5012	1-208-659-11	s	RESISTOR CHIP 100 1/16W (1005)
R5013	1-208-659-11	s	RESISTOR CHIP 100 1/16W (1005)
R5014	1-208-659-11	s	RESISTOR CHIP 100 1/16W (1005)
R5015	1-208-659-11	s	RESISTOR CHIP 100 1/16W (1005)
R5016	1-218-990-11	s	RESISTOR,CHIP 0 1/16W (1005)
R5020	1-218-961-11	s	RESISTOR, CHIP 4.7K 1/16W
R5021	1-218-961-11	s	RESISTOR, CHIP 4.7K 1/16W
R5022	1-218-961-11	s	RESISTOR, CHIP 4.7K 1/16W
R5023	1-218-961-11	s	RESISTOR, CHIP 4.7K 1/16W
R5025	1-218-961-11	s	RESISTOR, CHIP 4.7K 1/16W
R5026	1-218-961-11	s	RESISTOR, CHIP 4.7K 1/16W
R5027	1-218-961-11	s	RESISTOR, CHIP 4.7K 1/16W
R5028	1-218-955-11	s	RESISTOR, CHIP 1.5K
R5029	1-218-961-11	s	RESISTOR, CHIP 4.7K 1/16W
R5032	1-218-961-11	s	RESISTOR, CHIP 4.7K 1/16W
R5033	1-218-961-11	s	RESISTOR, CHIP 4.7K 1/16W
R5034	1-208-683-11	s	RESISTOR CHIP 1K 1/16W (1005)
R5035	1-208-659-11	s	RESISTOR CHIP 100 1/16W (1005)
R5036	1-208-659-11	s	RESISTOR CHIP 100 1/16W (1005)

(Q BOARD (FOR VPL-HS51))

Ref. No. or Q'ty	Part No.	SP	Description
R5037	1-218-961-11	s	RESISTOR, CHIP 4.7K 1/16W
R5038	1-218-961-11	s	RESISTOR, CHIP 4.7K 1/16W
R5039	1-218-961-11	s	RESISTOR, CHIP 4.7K 1/16W
R5040	1-218-990-11	s	RESISTOR,CHIP 0 1/16W (1005)
R5041	1-218-990-11	s	RESISTOR,CHIP 0 1/16W (1005)
R5042	1-218-990-11	s	RESISTOR,CHIP 0 1/16W (1005)
R5043	1-218-990-11	s	RESISTOR,CHIP 0 1/16W (1005)
R5044	1-218-990-11	s	RESISTOR,CHIP 0 1/16W (1005)
R5045	1-218-990-11	s	RESISTOR,CHIP 0 1/16W (1005)
R5046	1-218-990-11	s	RESISTOR,CHIP 0 1/16W (1005)
R5047	1-218-990-11	s	RESISTOR,CHIP 0 1/16W (1005)
R5048	1-218-990-11	s	RESISTOR,CHIP 0 1/16W (1005)
R5052	1-218-961-11	s	RESISTOR, CHIP 4.7K 1/16W
R5053	1-218-961-11	s	RESISTOR, CHIP 4.7K 1/16W
R5054	1-218-961-11	s	RESISTOR, CHIP 4.7K 1/16W
R5055	1-218-990-11	s	RESISTOR,CHIP 0 1/16W (1005)
R6001	1-218-961-11	s	RESISTOR, CHIP 4.7K 1/16W
R6007	1-218-961-11	s	RESISTOR, CHIP 4.7K 1/16W
R6008	1-218-961-11	s	RESISTOR, CHIP 4.7K 1/16W
R6009	1-218-952-11	s	RESISTOR, CHIP 820
R6010	1-218-935-11	s	RESISTOR,CHIP 33 1/16W (1005)
R6011	1-218-935-11	s	RESISTOR,CHIP 33 1/16W (1005)
R6012	1-218-935-11	s	RESISTOR,CHIP 33 1/16W (1005)
R6013	1-218-935-11	s	RESISTOR,CHIP 33 1/16W (1005)
R6014	1-218-935-11	s	RESISTOR,CHIP 33 1/16W (1005)
R6015	1-218-953-11	s	RESISTOR, CHIP 1K 1/16W
R6016	1-218-952-11	s	RESISTOR, CHIP 820
R6017	1-218-935-11	s	RESISTOR,CHIP 33 1/16W (1005)
R6019	1-218-961-11	s	RESISTOR, CHIP 4.7K 1/16W
R6020	1-218-947-11	s	RESISTOR, CHIP 330 1/16W
R6021	1-218-967-11	s	RESISTOR,CHIP 15K 1/16W (1608)
R6022	1-218-935-11	s	RESISTOR,CHIP 33 1/16W (1005)
R6023	1-218-935-11	s	RESISTOR,CHIP 33 1/16W (1005)
R6024	1-218-961-11	s	RESISTOR, CHIP 4.7K 1/16W
R6025	1-218-935-11	s	RESISTOR,CHIP 33 1/16W (1005)
R6026	1-218-961-11	s	RESISTOR, CHIP 4.7K 1/16W
R6027	1-218-935-11	s	RESISTOR,CHIP 33 1/16W (1005)
R6028	1-218-953-11	s	RESISTOR, CHIP 1K 1/16W
R6029	1-218-952-11	s	RESISTOR, CHIP 820
R6030	1-218-967-11	s	RESISTOR,CHIP 15K 1/16W (1608)
R6032	1-218-961-11	s	RESISTOR, CHIP 4.7K 1/16W
R6033	1-218-935-11	s	RESISTOR,CHIP 33 1/16W (1005)
R6034	1-218-937-11	s	RESISTOR, CHIP 47
R6035	1-218-935-11	s	RESISTOR,CHIP 33 1/16W (1005)
R6036	1-218-941-81	s	RESISTOR,CHIP 100,1/16W (1005)
R6037	1-218-941-81	s	RESISTOR,CHIP 100,1/16W (1005)
R6038	1-218-941-81	s	RESISTOR,CHIP 100,1/16W (1005)
R6039	1-218-961-11	s	RESISTOR, CHIP 4.7K 1/16W
R6040	1-218-961-11	s	RESISTOR, CHIP 4.7K 1/16W
R6041	1-218-941-81	s	RESISTOR,CHIP 100,1/16W (1005)
R6042	1-218-961-11	s	RESISTOR, CHIP 4.7K 1/16W
R6043	1-218-961-11	s	RESISTOR, CHIP 4.7K 1/16W
R6052	1-218-990-11	s	RESISTOR,CHIP 0 1/16W (1005)
R6053	1-218-961-11	s	RESISTOR, CHIP 4.7K 1/16W
R6057	1-218-990-11	s	RESISTOR,CHIP 0 1/16W (1005)
R6058	1-218-961-11	s	RESISTOR, CHIP 4.7K 1/16W
R6059	1-218-961-11	s	RESISTOR, CHIP 4.7K 1/16W
R6060	1-218-961-11	s	RESISTOR, CHIP 4.7K 1/16W

(Q BOARD (FOR VPL-HS51))

Ref. No. or Q'ty	Part No.	SP	Description	
RB6000	1-234-370-11	s	RES, NETWORK 22X4	(1005)
RB6001	1-234-370-11	s	RES, NETWORK 22X4	(1005)
RB6002	1-234-370-11	s	RES, NETWORK 22X4	(1005)
RB6003	1-234-370-11	s	RES, NETWORK 22X4	(1005)
RB6004	1-234-370-11	s	RES, NETWORK 22X4	(1005)
RB6005	1-234-370-11	s	RES, NETWORK 22X4	(1005)
RB6006	1-234-370-11	s	RES, NETWORK 22X4	(1005)
RB6007	1-234-370-11	s	RES, NETWORK 22X4	(1005)
RB6008	1-234-370-11	s	RES, NETWORK 22X4	(1005)
RB6009	1-234-370-11	s	RES, NETWORK 22X4	(1005)
RB6010	1-234-370-11	s	RES, NETWORK 22X4	(1005)
RB6011	1-234-370-11	s	RES, NETWORK 22X4	(1005)
RB6012	1-234-370-11	s	RES, NETWORK 22X4	(1005)
RB6013	1-234-370-11	s	RES, NETWORK 22X4	(1005)
TP5000	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)	
TP5001	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)	
TP5002	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)	
X5000	1-781-345-11	s	OSCILLATOR, CRYSTAL	
X6001	1-813-112-21	s	OSCILLATOR, CRYSTAL	

TA BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-1086-806-A	s	MOUNTED CIRCUIT BOARD, TA
C50	1-107-820-11	s	CERAMIC CHIP 0.1UF 16V
TH50	1-803-382-11	s	1-803-382-11 THERMISTOR (10K)

U BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-1057-964-A	s	MOUNTED CIRCUIT BOARD, U
S20	⚠ 1-570-504-12	s	SWITCH, MICRO

V BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-1057-965-A	s	MOUNTED CIRCUIT BOARD, V
S30	1-570-504-12	s	SWITCH, MICRO

4-4. Packing Materials & Supplied Accessories

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PACKING MATERIALS & SUPPLIED ACCESSORIES
--------------------------------------

*1:[VPL-HS50]
*2:[VPL-HS51]

 Ref. No.
 or Q'ty  Part No.    SP Description

 1pc      1-479-105-11 s REMOTE COMMANDER (RM-PJHS50)
 1pc      9-885-028-14 s BATTERY COVER (FOR RM-PJHS50)
 1pc    ⚠ ------------   CORD, POWER
 (See Sec.1-9. Warning on Power Connection)
 1pc   *1 2-188-141-01 s OPERATING INSTRUCTIONS
                          (JAPANESE, SIMPLIFIED CHINESE)
 1pc      2-188-141-11 s OPERATING INSTRUCTIONS
                          (ENGLISH)

 1pc   *1 2-188-141-21 s OPERATING INSTRUCTIONS
                          (FRENCH, SPANISH))
 1pc   *1 2-188-141-31 s OPERATING INSTRUCTIONS
                          (GERMAN, ITALIAN)
 1pc      2-583-374-01 s SHEET, PROTECTION (A)
 1pc      3-704-353-01 s SHEET (STANDARD), PROTECTION
 1pc   *2 4-099-346-02 s PACK, CD-ROM
```

Section 5
Block Diagrams

C

S VIDEO
J103
S-C
S-Y
4 3 2 1
X600
24.576MHz
IC601
VIDEO DECODER
GEI_(2) - (9)
BEI_(2) - (9)

VIDEO
CVBS
J100
IC503
3D COMB
Y-NT
C-NT

IC702
AD CONVERTER

INPUT
CN101
INPUT A
R-ADC_A
G-ADC_A
B-ADC_A
IC906
SYNC SEP
X900
33MHz

J101
PR/CR
Y
PB/CB
R-ADC_B
G-ADC_B
B-ADC_B

HDMI
IC403
HDMI RECEIVER
DRE0-7
DGE0-7
DBE0-7
IC800-IC804
BUFF
REI_(2) - (9)
GEI_(2) - (9)
BEI_(2) - (9)

A12V
IC904
5V REG
A5V_2

16.5V
IC504
12V REG
A12V

REI_(2) - (9)
GEI_(2) - (9)
BEI_(2) - (9)
IC1001
SYSTEM IC
X1000
33MHz

GRE (0)-(7)
GRO (0)-(7)
GGE (0)-(7)
GGO (0)-(7)
GBE (0)-(7)
GBO (0)-(7)
IC1301
SCAN CONVERTER
X1301
16.384MHz

DDQ0-31
DAD0-9
IC1102
DDR MEMORY

12_A (0-9)
12_D (0-9)
IC1305
FLASH ROM

6.4V
IC500
5V REG
IC502
3.3V REG
3.3V
IC501
2.5V REG
2.5V
6.4V
IC600, IC603
3.3V REG
IC602, IC604
1.8V REG
1.8V

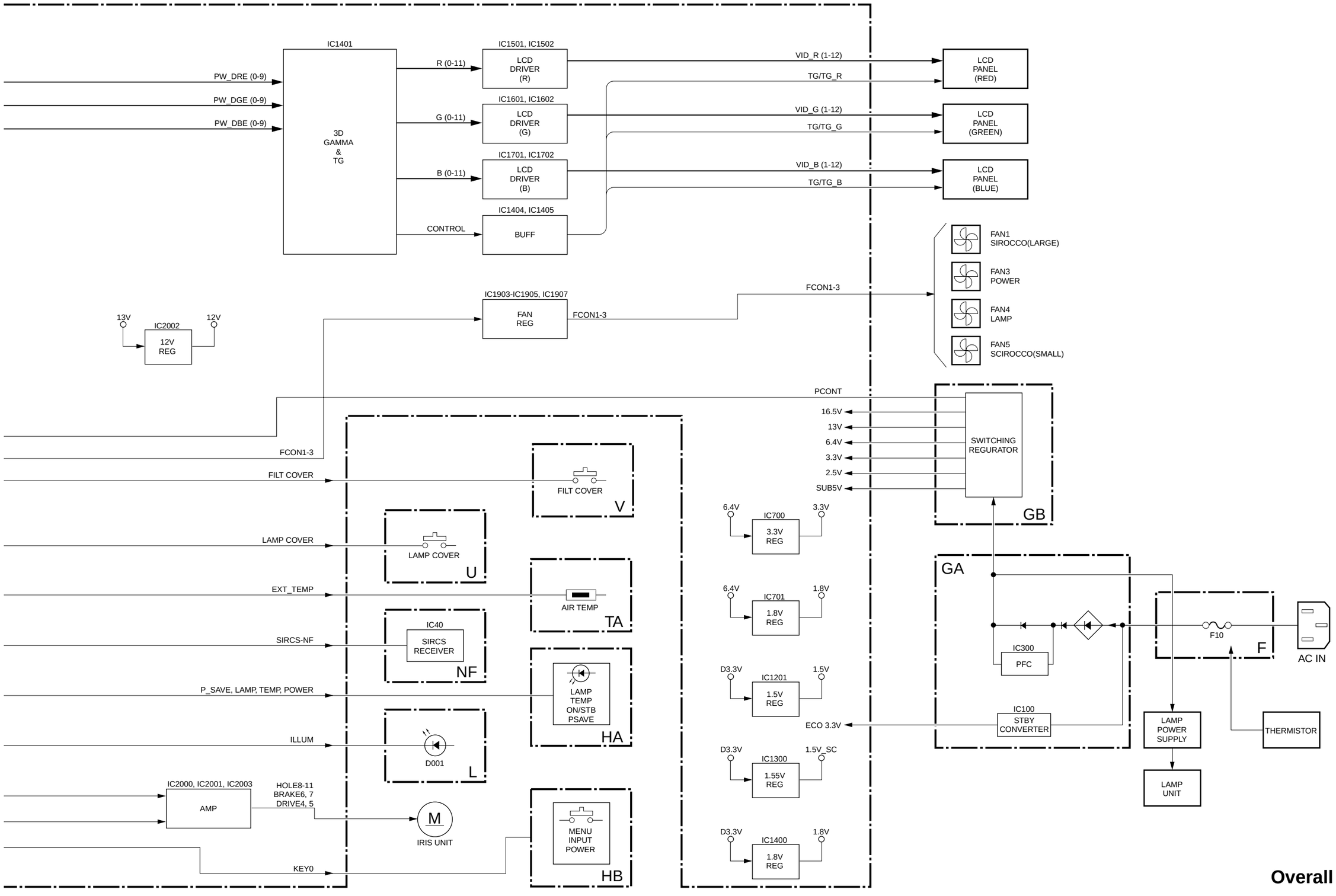
CONTROL
IC1802
MAIN CPU
X1800
16.384MHz

CN5000
TX+, TD–
RD+, RD–
IC5000
ETHERNET TRANSCEIVER
TXD 0-3
RXD0-3
X5000
25MHz
IC6001
NETWORK CONTROLLER
TXD_IP
RXD_IP
X6001
55.296MHz
IC5003
SDRAM
IC5004
FLASH ROM
Q

TXD
RXD
IC1808
SW

SUB_5V
Q200
SW
VBUS
D+
D–
IC201
PJ STATION CONT
SDA_USB
SCL_USB

FOR VPL-HS51 ONLY


IC1401
PW_DRE (0-9)
PW_DGE (0-9)
PW_DBE (0-9)
3D
GAMMA
&
TG
R (0-11)
G (0-11)
B (0-11)
CONTROL
IC1501, IC1502
LCD
DRIVER
(R)
IC1601, IC1602
LCD
DRIVER
(G)
IC1701, IC1702
LCD
DRIVER
(B)
IC1404, IC1405
BUFF
VID_R (1-12)
TG/TG_R
VID_G (1-12)
TG/TG_G
VID_B (1-12)
TG/TG_B
LCD
PANEL
(RED)
LCD
PANEL
(GREEN)
LCD
PANEL
(BLUE)
FAN1
SIROCCO(LARGE)
FAN3
POWER
FAN4
LAMP
FAN5
SCIROCCO(SMALL)
IC1903-IC1905, IC1907
FAN
REG
FCON1-3
13V
12V
IC2002
12V
REG
PCONT
16.5V
13V
6.4V
3.3V
2.5V
SUB5V
SWITCHING
REGURATOR
GB
FCON1-3
FILT COVER
LAMP COVER
EXT_TEMP
SIRCS-NF
P_SAVE, LAMP, TEMP, POWER
ILLUM
KEY0
FILT COVER
V
LAMP COVER
U
AIR TEMP
TA
IC40
SIRCS
RECEIVER
NF
LAMP
TEMP
ON/STB
PSAVE
HA
D001
L
MENU
INPUT
POWER
HB
IC2000, IC2001, IC2003
AMP
HOLE8-11
BRAKE6, 7
DRIVE4, 5
M
IRIS UNIT
6.4V
IC700
3.3V
3.3V
REG
6.4V
IC701
1.8V
1.8V
REG
D3.3V
IC1201
1.5V
1.5V
REG
D3.3V
IC1300
1.55V
REG
1.5V_SC
D3.3V
IC1400
1.8V
1.8V
REG
ECO 3.3V
GA
IC300
PFC
IC100
STBY
CONVERTER
F10
F
AC IN
LAMP
POWER
SUPPLY
LAMP
UNIT
THERMISTOR

Overall

Section 6
Schematic Diagrams

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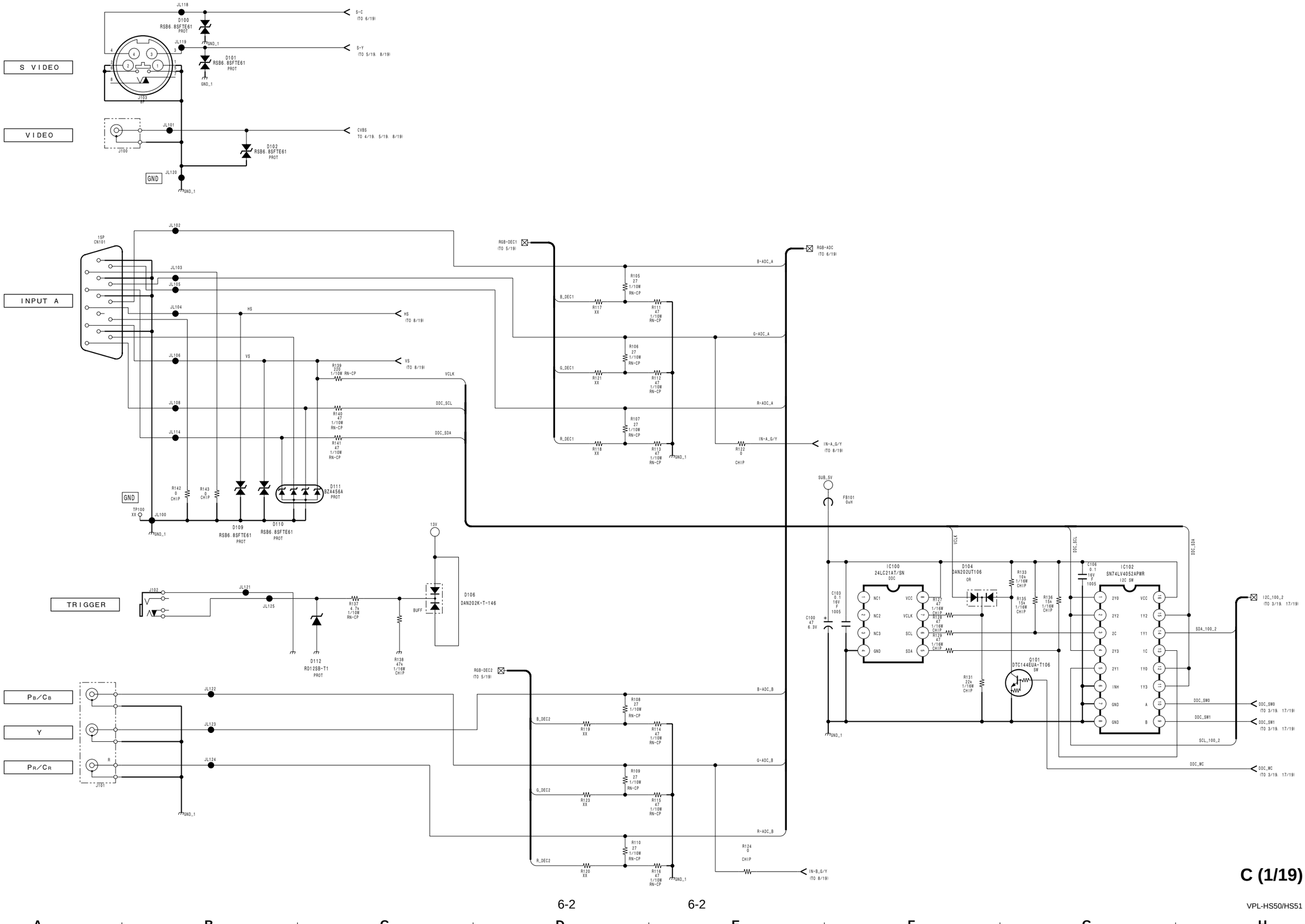
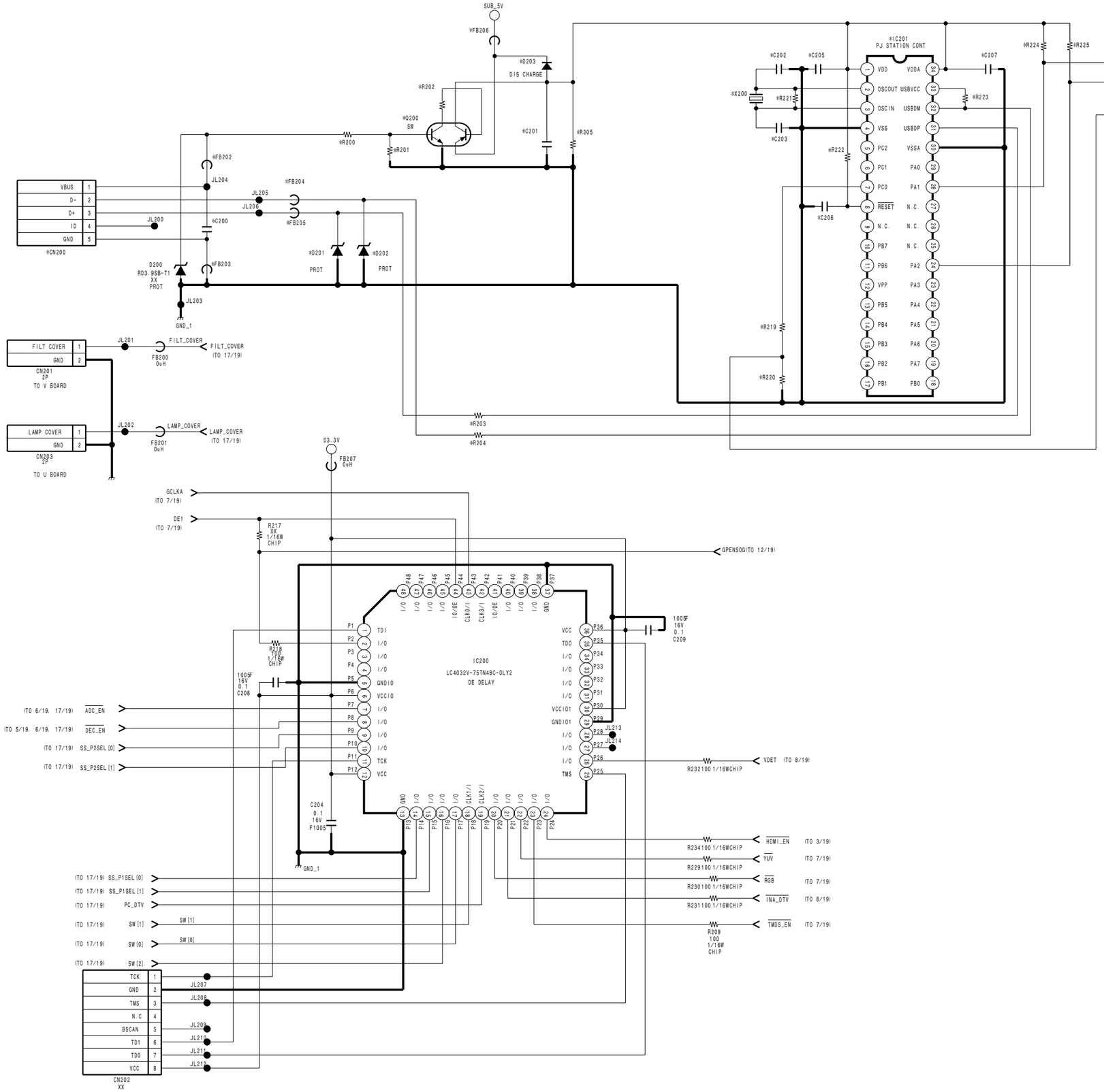
Board Name	Page
C	6-2
F	6-26
GA	6-27
GB	6-30
HA	6-32
HB	6-33
L	6-34
NF	6-34
Q (VPL-HS51 only)	6-35
TA	6-34
U	6-34
V	6-34
Frame Wiring	6-38

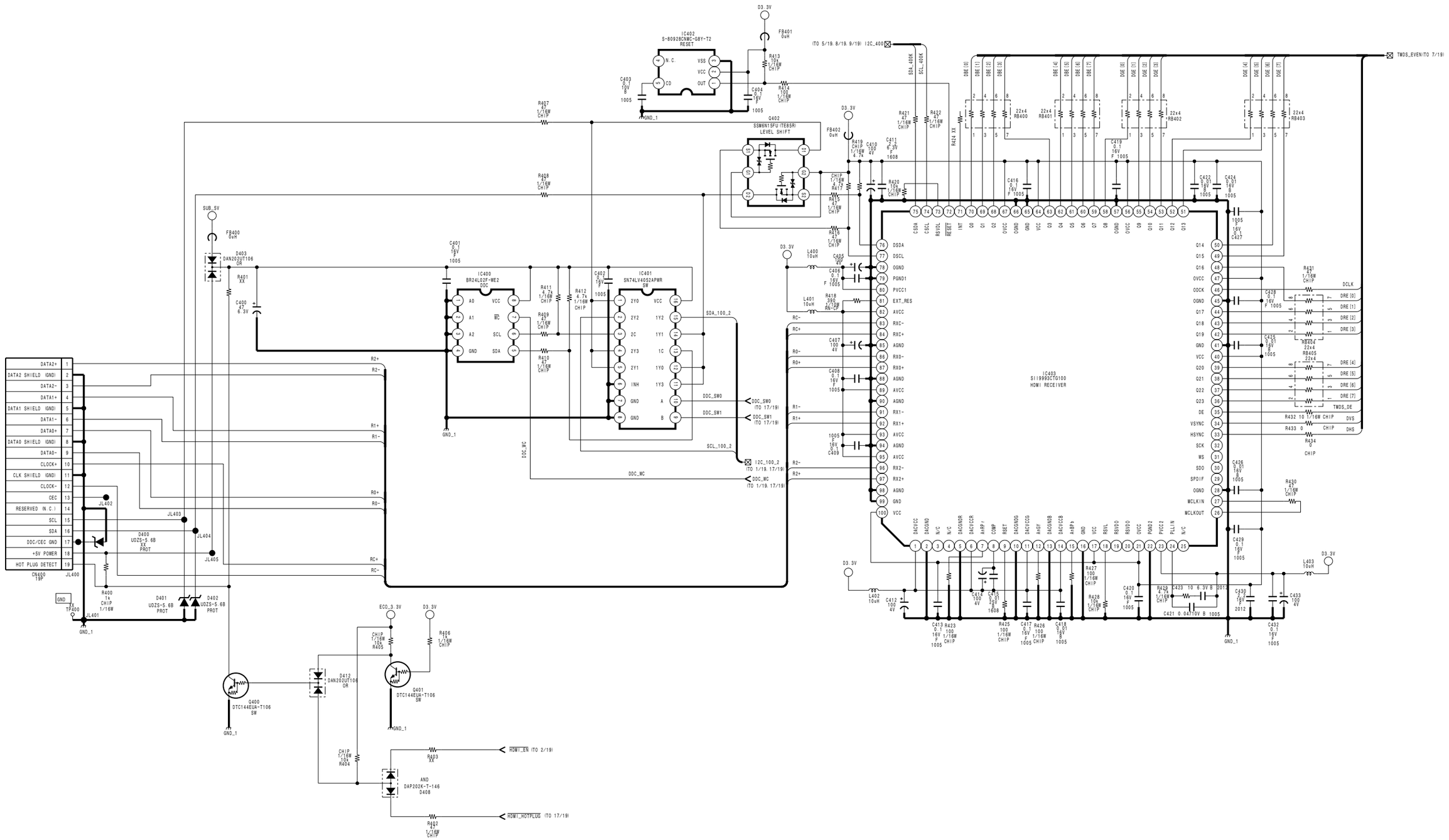
6-1


S VIDEO
VIDEO
GND
INPUT A
TRIGGER
PB/CB
Y
PR/CR
JL118
JL119
JL101
JL120
JL102
JL103
JL105
JL104
JL106
JL108
JL114
JL122
JL123
JL124
JL121
D100 RSB6.8SFTE61 PROT
D101 RSB6.8SFTE61 PROT
D102 RSB6.8SFTE61 PROT
D109 RSB6.8SFTE61 PROT
D110 RSB6.8SFTE61 PROT
D111 BZA456A PROT
D112 RD12SB-T1 PROT
D106 DAN202K-T-146
S-C (TO 6/19)
S-Y (TO 5/19, 8/19)
CVBS TO 4/19, 5/19, 8/19)
HS (TO 8/19)
VS (TO 8/19)
VCLK
DDC_SCL
DDC_SDA
RGB-DEC1 (TO 5/19)
RGB-DEC2 (TO 5/19)
RGB-ADC (TO 6/19)
B-ADC_A
G-ADC_A
R-ADC_A
B-ADC_B
G-ADC_B
R-ADC_B
IN-A_G/Y (TO 8/19)
IN-B_G/Y (TO 8/19)
SUB_5V
FB101 0uH
IC100 24LC21AT/SN DDC
D104 DAN202UT106 OR
IC102 SN74LV4052APWR I2C SW
Q101 DTC144EUA-T106 SW
I2C_100_2 (TO 3/19, 17/19)
SDA_100_2
SCL_100_2
DDC_SW0 (TO 3/19, 17/19)
DDC_SW1 (TO 3/19, 17/19)
DDC_MC (TO 3/19, 17/19)
13V
TP100
JL100
J100
J101
J102
J103
J104
J105
J106
J108
J114
J121
J125
J101



*	VPL-HS50	VPL-HS51
C200	XX	1 SMD 10V 1608
C201	XX	22 SMD 10V 3216
C202	XX	33p SMD 50V 1005
C203	XX	33p SMD 50V 1005
C205	XX	0.1 SMD 16V 1005
C206	XX	0.01 SMD 16V 1005
C207	XX	0.1 SMD 16V 1005
CN200	XX	1.6 5P
D201	XX	RD3.9SB-T1
D202	XX	RD3.9SB-T1
D203	XX	1SS355
FB202	XX	0uH
FB203	XX	0uH
FB204	XX	0uH
FB205	XX	0uH
FB206	XX	0uH
IC201	XX	ST72T631K4M1-201
Q200	XX	HN1B01FU-TE85R
R200	XX	10k SMD 1005
R201	XX	10k SMD 1005
R202	XX	1k SMD 1005
R203	XX	0 SMD 1005
R204	XX	0 SMD 1005
R205	XX	2.2k SMD 1005
R219	XX	22k SMD 1005
R220	XX	47k SMD 1005
R221	XX	1M SMD 1005
R222	XX	10k SMD 1005
R223	XX	1.5k SMD 1005
R224	XX	4.7k SMD 1005
R225	XX	4.7k SMD 1005
R226	XX	47 SMD 1005
R227	XX	47 SMD 1005
R228	XX	47 SMD 1005
X200	XX	SMD

C (2/19)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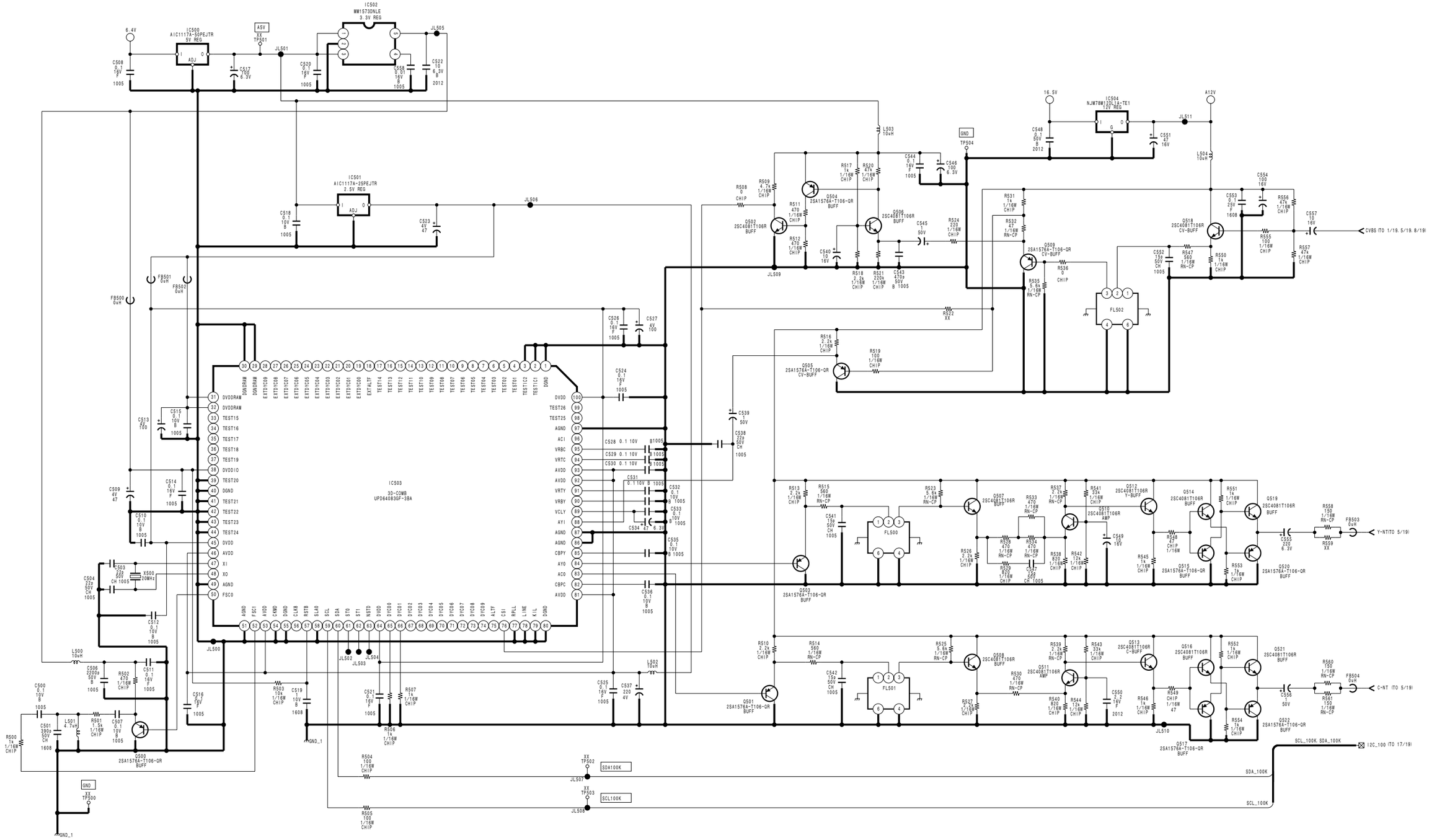
S-80928CNMC-G8Y-T2
RESET
IC400
BR24L02F-WE2
IC401
SN74LV4052APWR
IC403
SII9993CTG100
HDMI RECEIVER
Q402
SSM6N15FU (TE85R)
LEVEL SHIFT
Q400
DTC144EUA-T106
Q401
DTC144EUA-T106
D400
UDZS-5.6B
D401
UDZS-5.6B
D402
UDZS-5.6B
D403
DAN202UT106
D412
DAN202UT106
D408
DAP202K-T-146
CN400
19P
SUB_5V
D3.3V
ECO_3.3V
GND_1
SDA_100_2
SCL_100_2
I2C_100_2
DDC_SW0
DDC_SW1
DDC_WC
RSWI_EN (TO 2/19)
RSWI_HOTPLUG (TO 17/19)
TMDS_EVEN(TO 7/19)
I2C_400 (TO 5/19.8/19.9/19)
SDA_400K
SCL_400K
DATA2+
DATA2 SHIELD (GND)
DATA2-
DATA1+
DATA1 SHIELD (GND)
DATA1-
DATA0+
DATA0 SHIELD (GND)
DATA0-
CLOCK+
CLK SHIELD (GND)
CLOCK-
CEC
RESERVED (N.C.)
SCL
SDA
DDC/CEC GND
+5V POWER
HOT PLUG DETECT
DSDA
DSCL
OGND
PGND1
PVCC1
EXT_RES
AVCC
RXC-
RXC+
AGND
RX0-
RX0+
RX1-
RX1+
RX2-
RX2+
VCC
DCLK
DE (0)
DE (1)
DE (2)
DE (3)
DE (4)
DE (5)
DE (6)
DE (7)
TWDS_DE
DVS
DHS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IC500
AIC1117A-50PEJTR
5V REG
IC501
AIC1117A-25PEJTR
2.5V REG
IC504
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12V REG
IC503
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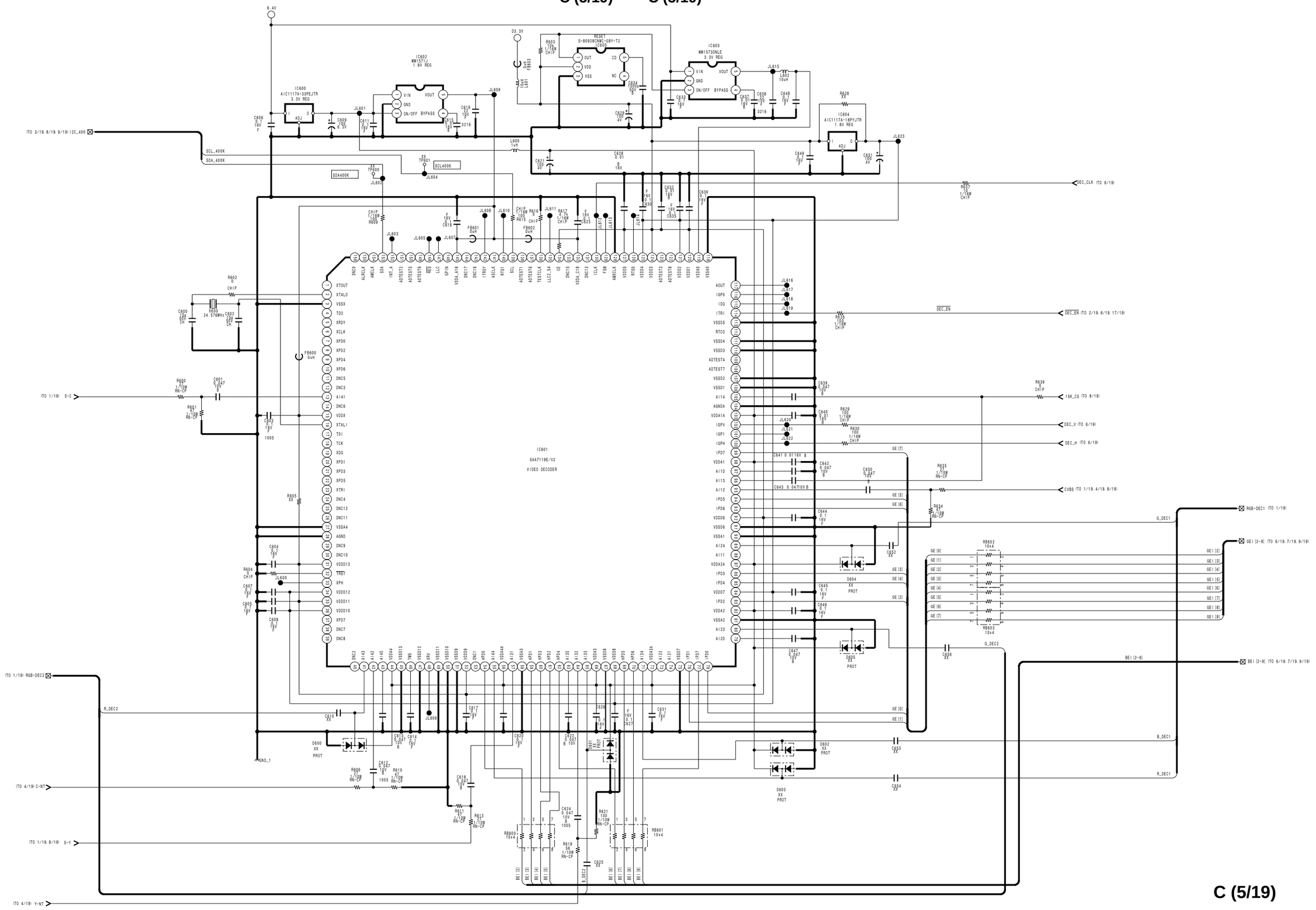
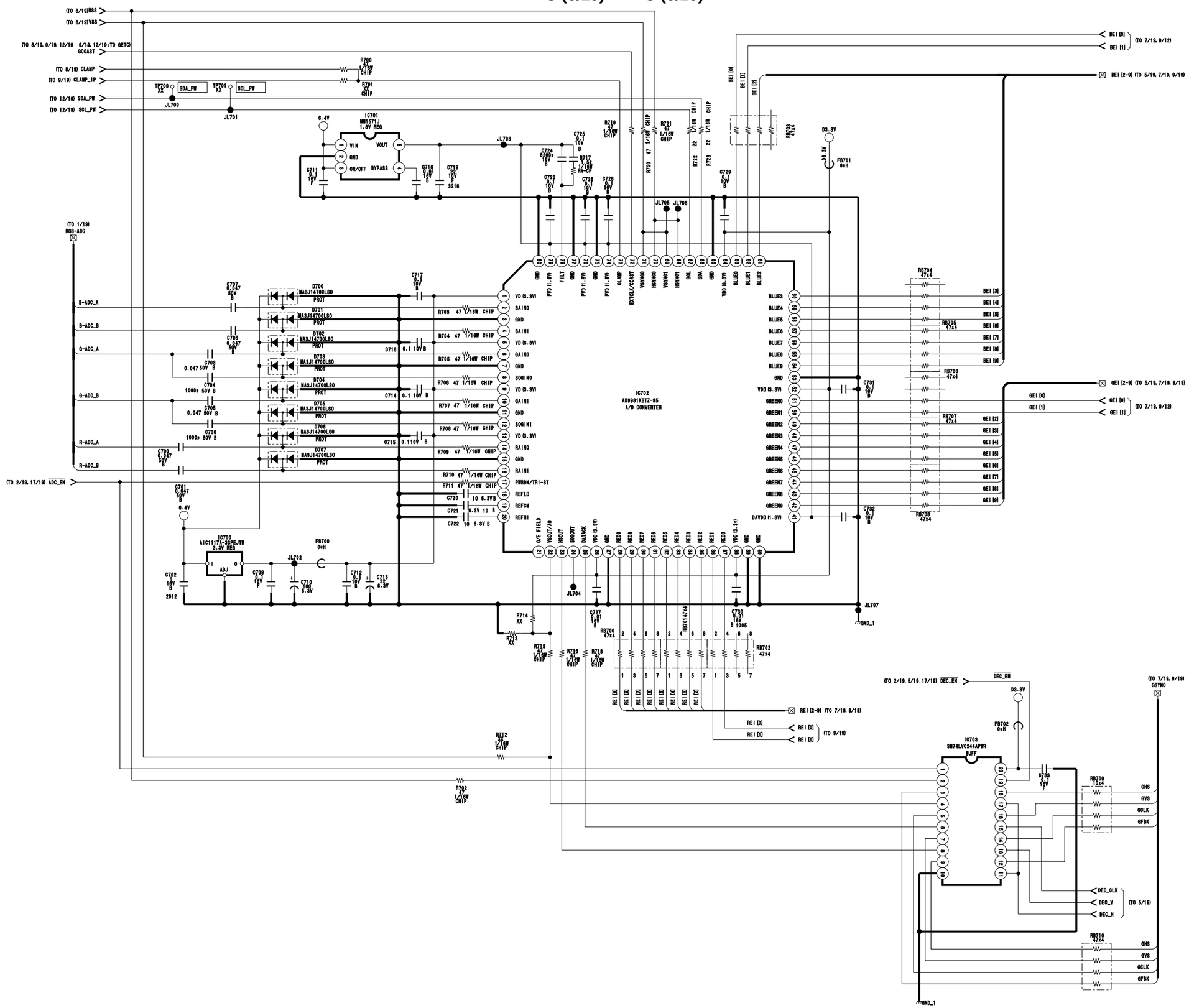
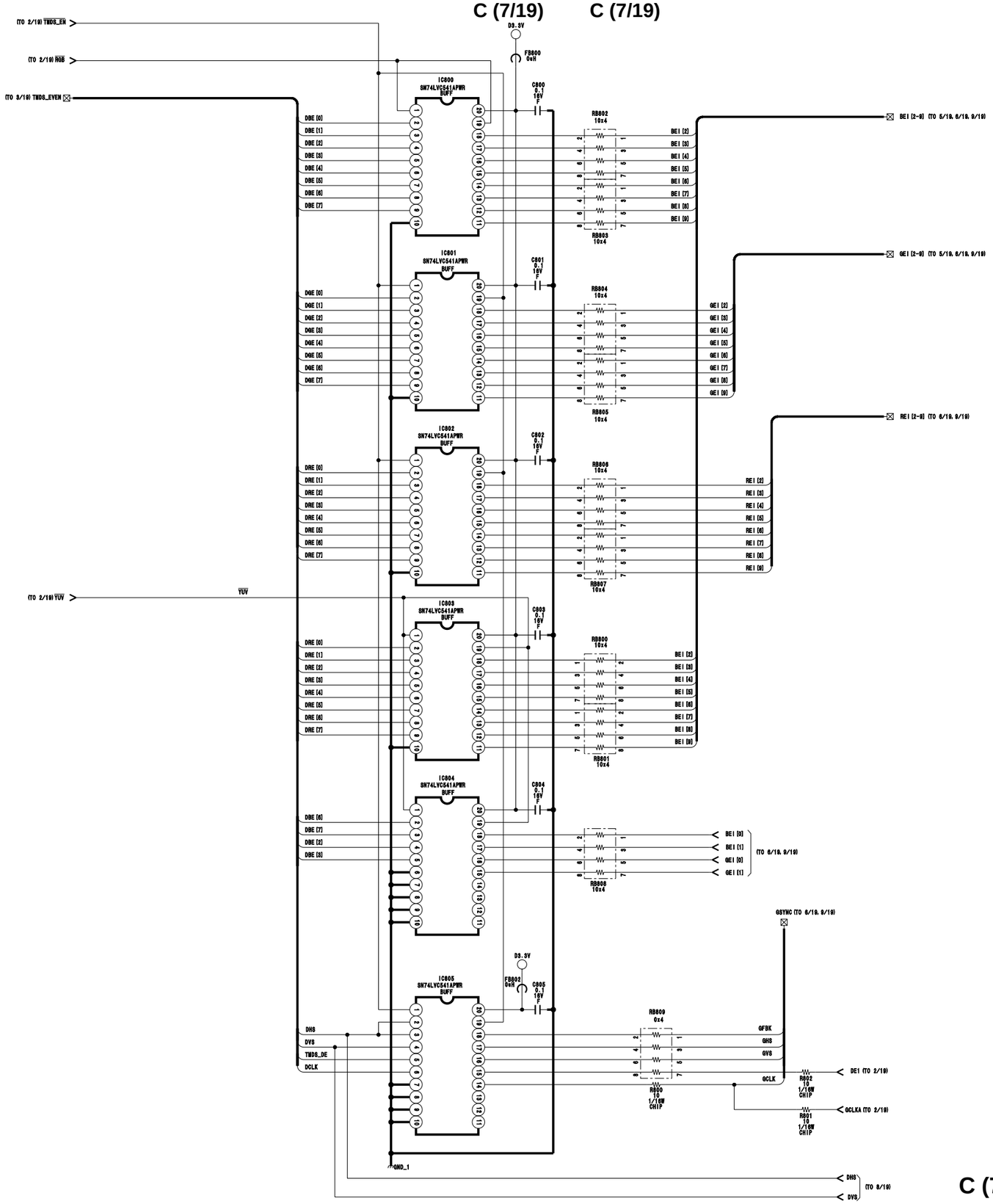
Q506 2SC4081T106R BUFF
Q507 2SC4081T106R BUFF
Q508 2SC4081T106R BUFF
Q509 2SA1576A-T106-QR CV-BUFF
Q510 2SC4081T106R AMP
Q511 2SC4081T106R AMP
Q512 2SC4081T106R Y-BUFF
Q513 2SC4081T106R C-BUFF
Q514 2SC4081T106R BUFF
Q515 2SA1576A-T106-QR BUFF
Q516 2SC4081T106R BUFF
Q517 2SA1576A-T106-QR BUFF
Q518 2SC4081T106R CV-BUFF
Q519 2SC4081T106R BUFF
Q520 2SA1576A-T106-QR BUFF
Q521 2SC4081T106R BUFF
Q522 2SA1576A-T106-QR BUFF
FL500
FL501
FL502
6.4V
A5V
A12V
16.5V
GND
DGND_1
SDA100K
SCL100K
SDA_100K
SCL_100K
SCL_100K SDA_100K
CVBS (TO 1/19, 5/19, 8/19)
Y-NT(TO 5/19)
C-NT (TO 5/19)
I2C_100 (TO 17/19)

C (4/19)


IC601
SAA7119E/V2
VIDEO DECODER
IC600
AIC1117A-33PEJTR
3.3V REG
IC602
MM1571J
1.8V REG
IC603
MM1573DNLE
3.3V REG
IC604
AIC1117A-18PYJTR
1.8V REG
IC605
S-80928CNMC-G8Y-T2
RESET
6.4V
D3.3V
SCL_400K
SDA_400K
SCL400K
SDA400K
(TO 3/19. 8/19. 9/19) I2C_400
DEC_CLK (TO 6/19)
DEC_EN (TO 2/19. 6/19. 17/19)
15K_CS (TO 8/19)
DEC_V (TO 8/19)
DEC_H (TO 8/19)
CVBS (TO 1/19. 4/19. 8/19)
RGB-DEC1 (TO 1/19)
GE I [2-9] (TO 6/19. 7/19. 9/19)
BE I [2-9] (TO 6/19. 7/19. 9/19)
(TO 1/19) S-C
(TO 1/19) RGB-DEC2
(TO 4/19) C-NT
(TO 1/19. 8/19) S-Y
(TO 4/19) Y-NT
R_DEC2
B_DEC1
G_DEC1
G_DEC2
R_DEC1
GND_1
X600
24.576MHz
D600 XX PROT
D601 XX PROT
D602 XX PROT
D603 XX PROT
D604 XX PROT
D605 XX PROT
RB600 10x4
RB601 10x4
RB602 10x4
RB603 10x4

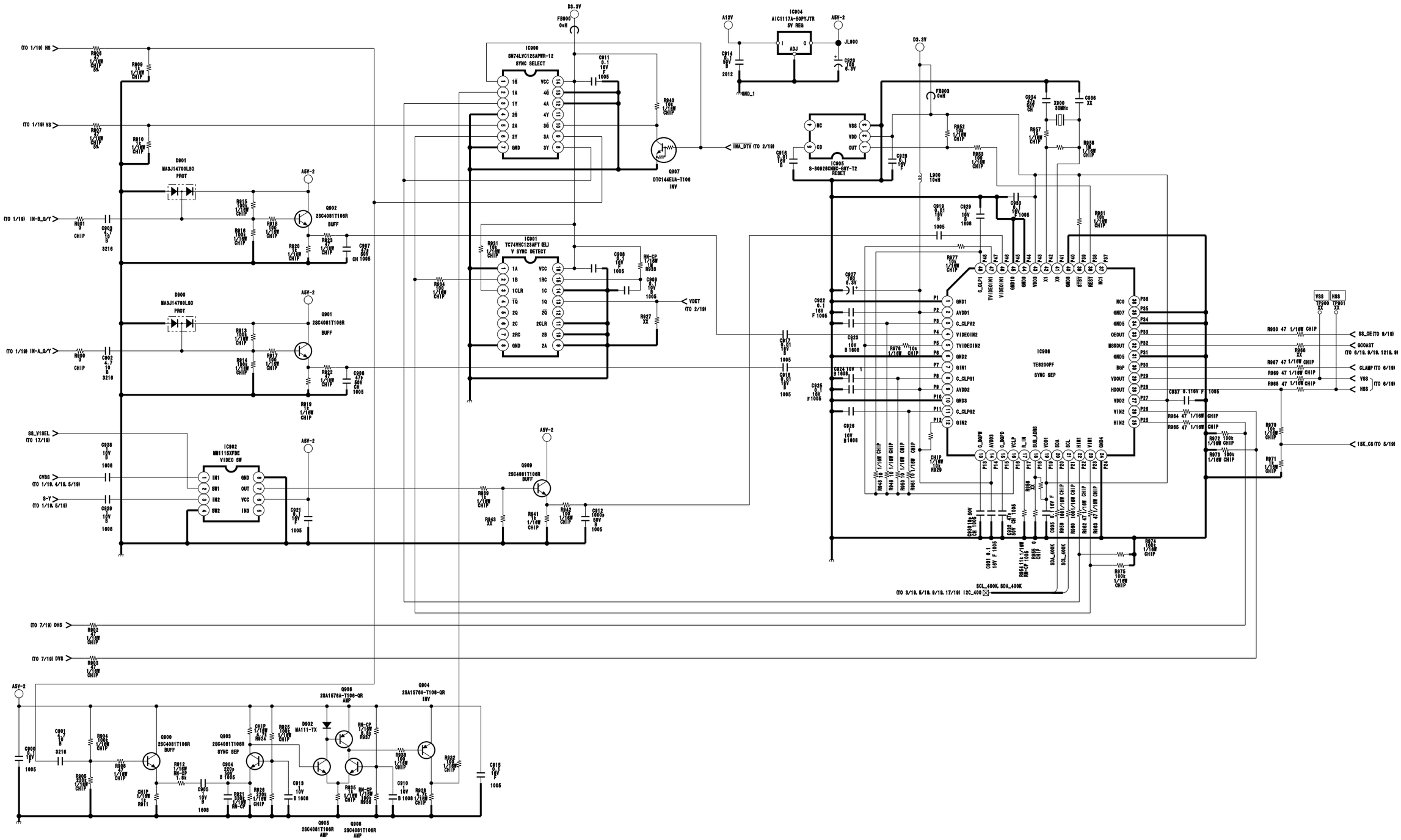

IC701
MM1671J
1.8V REG
IC700
AIC1117A-33PEJTR
3.3V REG
IC702
AD9981KSTZ-95
A/D CONVERTER
IC703
SN74LVC244APWR
BUFF
D700
MA3J14700LS0
PROT
D701
MA3J14700LS0
PROT
D702
MA3J14700LS0
PROT
D703
MA3J14700LS0
PROT
D704
MA3J14700LS0
PROT
D705
MA3J14700LS0
PROT
D706
MA3J14700LS0
PROT
D707
MA3J14700LS0
PROT
(TO 1/19)
RGB-ADC
B-ADC_A
B-ADC_B
G-ADC_A
G-ADC_B
R-ADC_A
R-ADC_B
(TO 2/19, 17/19) ADC_EN
(TO 8/19)HSS
(TO 8/19)VSS
(TO 8/19, 9/19, 12/19 9/19, 12/19:TO GETC)
GCOAST
(TO 8/19) CLAMP
(TO 9/19) CLAMP_IP
(TO 12/19) SDA_PW
(TO 12/19) SCL_PW
SDA_PW
SCL_PW
JL700
JL701
JL702
JL703
JL704
JL705
JL706
JL707
FB700
FB701
FB702
6.4V
D3.3V
VIN
VOUT
GND
ON/OFF
BYPASS
BEI [0]
BEI [1]
BEI [2-0] (TO 5/19, 7/19, 9/19)
(TO 7/19, 9/12)
GEI [0]
GEI [1]
GEI [2-0] (TO 5/19, 7/19, 9/19)
REI [0]
REI [1]
REI [2-0] (TO 7/19, 9/19)
(TO 9/19)
DEC_EN
(TO 2/19, 5/19, 17/19) DEC_EN
(TO 7/19, 9/19)
GSYNC
GHS
GVS
GCLK
GFBK
DEC_CLK
DEC_V
DEC_H
(TO 5/19)
GND_1

C (7/19)

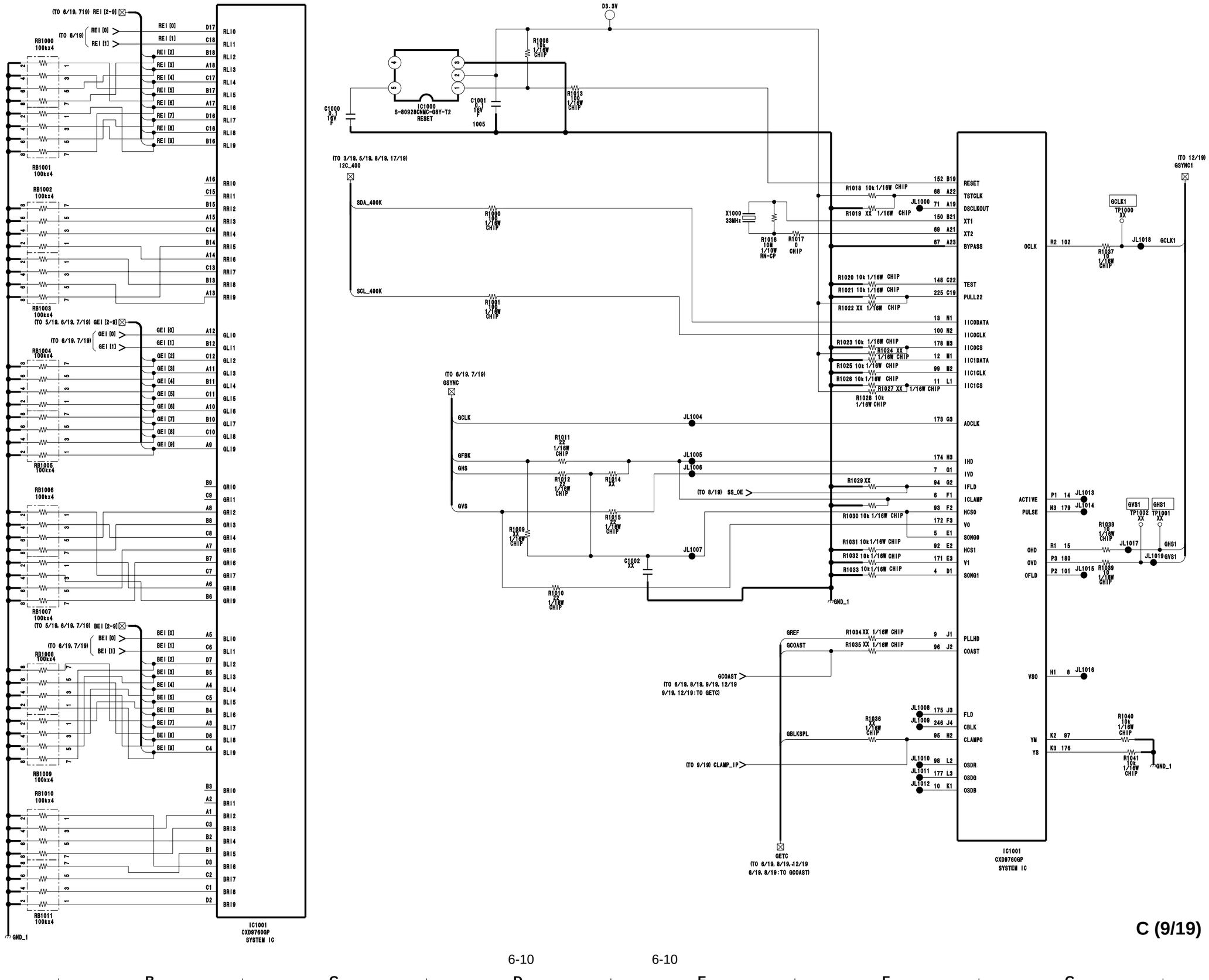

(TO 2/19) TMDS_EN
(TO 2/19) RGB
(TO 8/19) TMDS_EVEN
D3.3V
FB800 0uH
IC800 SN74LVC541APWR BUFF
C800 0.1 16V F
RB802 10x4
RB803 10x4
DGE [0]
DGE [1]
DGE [2]
DGE [3]
DGE [4]
DGE [5]
DGE [6]
DGE [7]
BE1 [2]
BE1 [3]
BE1 [4]
BE1 [5]
BE1 [6]
BE1 [7]
BE1 [8]
BE1 [9]
BE1 [2-9] (TO 5/19, 6/19, 9/19)
IC801 SN74LVC541APWR BUFF
C801 0.1 16V F
RB804 10x4
RB805 10x4
GE1 [2]
GE1 [3]
GE1 [4]
GE1 [5]
GE1 [6]
GE1 [7]
GE1 [8]
GE1 [9]
GE1 [2-9] (TO 5/19, 6/19, 9/19)
IC802 SN74LVC541APWR BUFF
C802 0.1 16V F
RB806 10x4
RB807 10x4
DRE [0]
DRE [1]
DRE [2]
DRE [3]
DRE [4]
DRE [5]
DRE [6]
DRE [7]
RE1 [2]
RE1 [3]
RE1 [4]
RE1 [5]
RE1 [6]
RE1 [7]
RE1 [8]
RE1 [9]
RE1 [2-9] (TO 5/19, 9/19)
(TO 2/19) YUV
YUV
IC803 SN74LVC541APWR BUFF
C803 0.1 16V F
RB800 10x4
RB801 10x4
IC804 SN74LVC541APWR BUFF
C804 0.1 16V F
RB808 10x4
(TO 5/19, 9/19)
D3.3V
FB802 0uH
IC805 SN74LVC541APWR BUFF
C805 0.1 16V F
RB809 0x4
DHS
DVS
TMDS_DE
DCLK
GFBK
GHS
GVS
GCLK
GSYNC (TO 5/19, 9/19)
DE1 (TO 2/19)
GCLKA (TO 2/19)
RB02 10 1/10W CHIP
RB01 10 1/10W CHIP
RB00 10 1/10W CHIP
GND_1
(TO 8/19)

C (7/19)

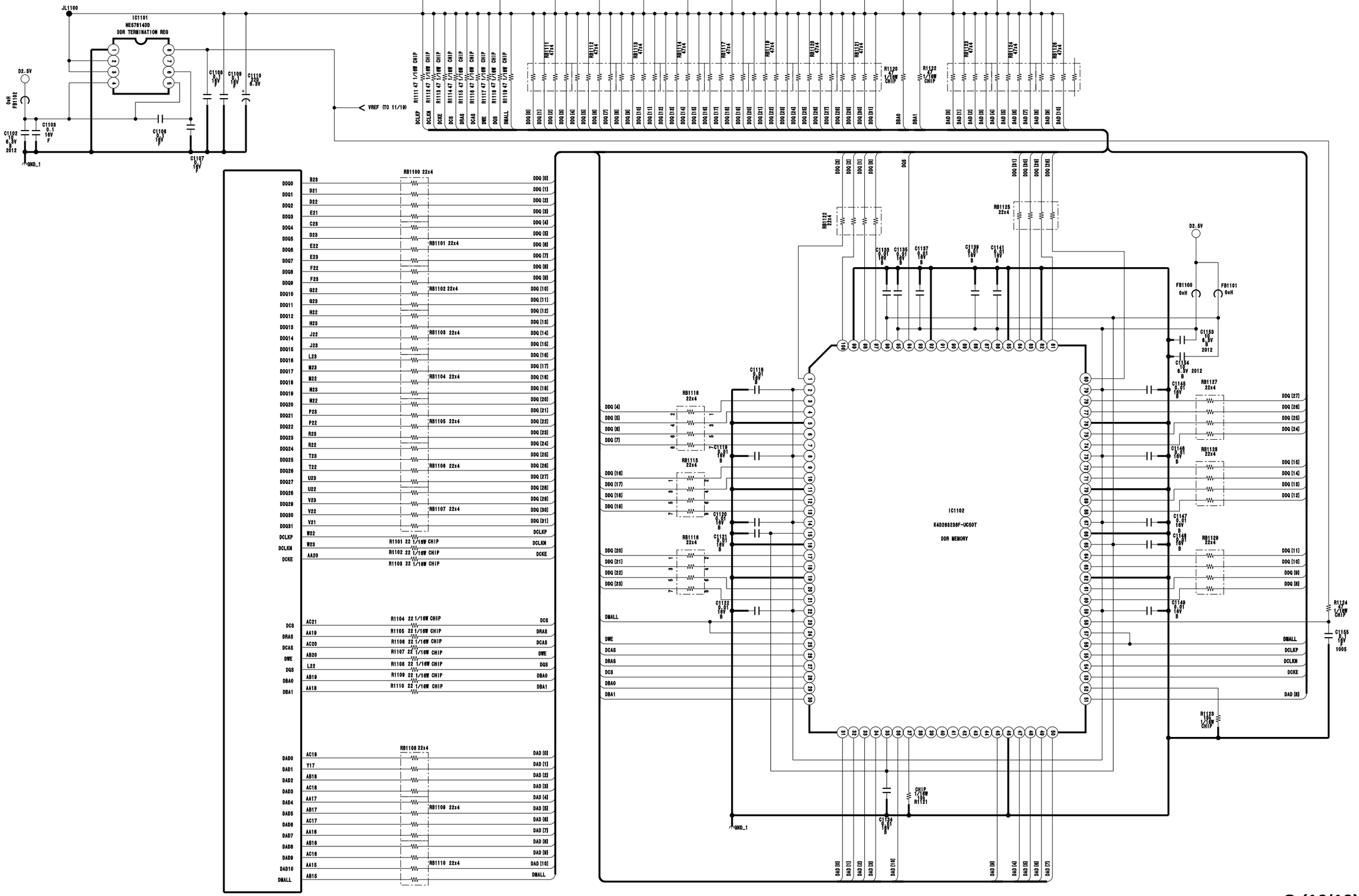
6-8

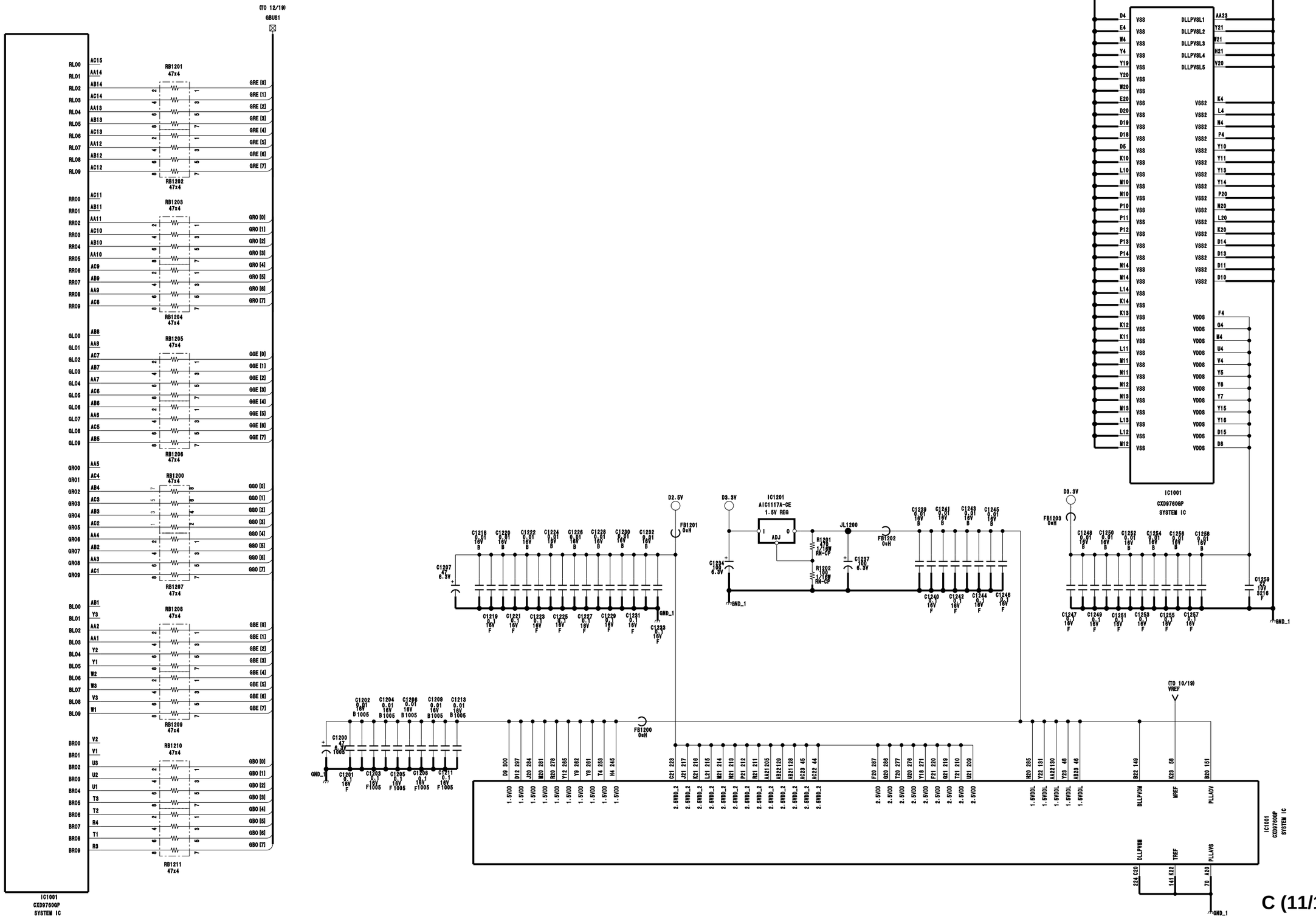

IC900
SN74LVC125APWR-12
SYNC SELECT
IC901
TC74VHC123AFT (EL)
V SYNC DETECT
IC902
MM1153XFBE
VIDEO SW
IC904
AIC1117A-50PYJTR
5V REG
IC905
S-80928CNMC-G8Y-T2
RESET
IC906
TE8200PF
SYNC SEP
Q900 2SC4081T106R BUFF
Q901 2SC4081T106R BUFF
Q902 2SC4081T106R BUFF
Q903 2SC4081T106R SYNC SEP
Q904 2SA1576A-T106-QR INV
Q905 2SC4081T106R AMP
Q906 2SA1576A-T106-QR AMP
Q907 DTC144EUA-T106 INV
Q908 2SC4081T106R AMP
Q909 2SC4081T106R BUFF
D900 MA3J14700L8O PROT
D901 MA3J14700L8O PROT
D902 MA111-TX
(TO 1/19) HS
(TO 1/19) VS
(TO 1/19) IN-B_G/Y
(TO 1/19) IN-A_G/Y
S8_V18EL (TO 17/19)
CVBS (TO 1/19, 4/19, 5/19)
S-Y (TO 1/19, 5/19)
(TO 7/19) DHS
(TO 7/19) DVS
INA_DTV (TO 2/19)
VDET (TO 2/19)
SCL_400K, SDA_400K (TO 3/19, 5/19, 8/19, 17/19) I2C_400
SS_OE (TO 9/19)
SCOAST (TO 8/19, 9/19, 12/19, 9)
CLAMP (TO 8/19)
VSS (TO 8/19)
HSS (TO 8/19)
15K_CS (TO 5/19)
D3.3V
A12V
A5V-2
GND_1
X900 32MHz
L900 10nH

C (8/19)

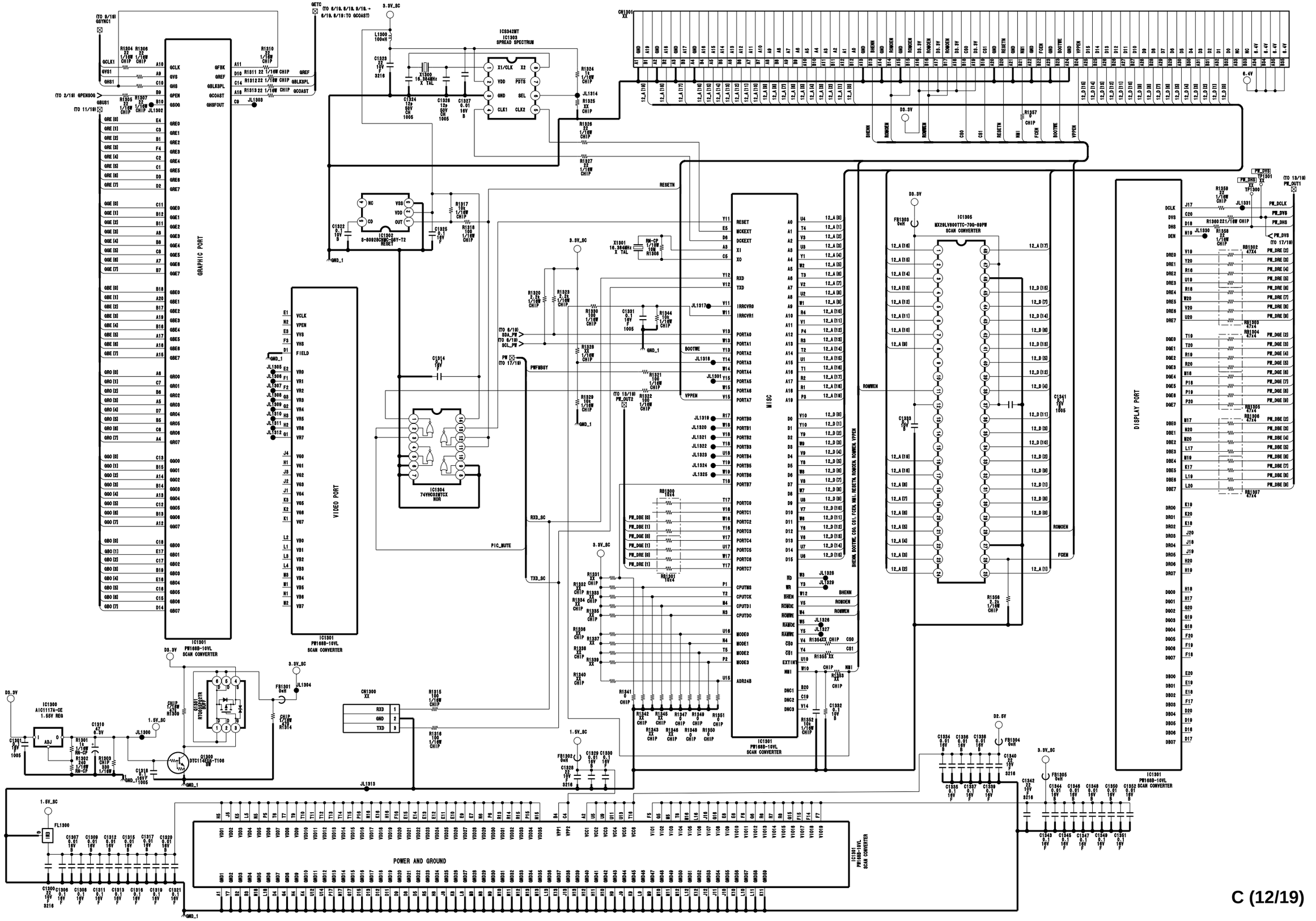

(TO 6/19, 7/19) REI [2-9]
(TO 6/19) REI [0]
REI [1]
RB1000 100kx4
RB1001 100kx4
RB1002 100kx4
RB1003 100kx4
(TO 5/19, 6/19, 7/19) GEI [2-9]
(TO 6/19, 7/19) GEI [0]
GEI [1]
RB1004 100kx4
RB1005 100kx4
RB1006 100kx4
RB1007 100kx4
(TO 5/19, 6/19, 7/19) BEI [2-9]
(TO 6/19, 7/19) BEI [0]
BEI [1]
RB1008 100kx4
RB1009 100kx4
RB1010 100kx4
RB1011 100kx4
GND_1
IC1001
CXD9760GP
SYSTEM IC
D3.3V
R1008 10k 1/16W CHIP
R1013 10k 1/16W CHIP
C1000 0.1V 16V F
IC1000 S-80928CNMC-G8Y-T2 RESET
C1001 0.1V 16V F 1005
(TO 3/19, 5/19, 8/19, 17/19) I2C_400
SDA_400K
SCL_400K
R1000 100 1/16W CHIP
R1001 100 1/16W CHIP
X1000 38MHz
R1016 10M 1/10W RN-CP
R1017 0 CHIP
R1018 10k 1/16W CHIP
R1019 XX 1/16W CHIP
JL1000
R1020 10k 1/16W CHIP
R1021 10k 1/16W CHIP
R1022 XX 1/16W CHIP
R1023 10k 1/16W CHIP
R1024 XX 1/16W CHIP
R1025 10k 1/16W CHIP
R1026 10k 1/16W CHIP
R1027 XX 1/16W CHIP
R1028 10k 1/16W CHIP
(TO 6/19, 7/19) GSYNC
GCLK
GFBK
GHS
GVS
R1011 22 1/16W CHIP
R1012 22 1/16W CHIP
R1014 XX
R1015 33 1/16W CHIP
R1009 2K 1/16W CHIP
R1010 22 1/16W CHIP
C1002 XX
JL1004
JL1005
JL1006
JL1007
(TO 6/19) SS_OE
R1029 XX
R1030 10k 1/16W CHIP
R1031 10k 1/16W CHIP
R1032 10k 1/16W CHIP
R1033 10k 1/16W CHIP
GREF
GCOAST
R1034 XX 1/16W CHIP
R1035 XX 1/16W CHIP
(TO 6/19, 8/19, 9/19, 12/19 9/19, 12/19:TO GETC)
GBLKSPL
(TO 9/19) CLAMP_IP
R1036 XX 1/16W CHIP
GETC
(TO 6/19, 8/19, 12/19 6/19, 8/19:TO GCOAST)
152 B19 RESET
68 A22 TSTCLK
71 A19 DSCLKOUT
150 B21 XT1
69 A21 XT2
67 A23 BYPASS
148 C22 TEST
225 C19 PULL22
13 N1 IICODATA
100 N2 IICOCLK
178 M3 IICOCS
12 M1 IIC1DATA
99 M2 IIC1CLK
11 L1 IIC1CS
173 G3 ADCLK
174 H3 IHD
7 G1 IVD
94 G2 IFLD
6 F1 ICLAMP
93 F2 HCSO
172 F3 VO
5 E1 SONGO
92 E2 HCS1
171 E3 V1
4 D1 SONG1
9 J1 PLLHD
96 J2 COAST
175 J3 FLD
246 J4 CBLK
95 H2 CLAMPO
98 L2 OSDR
177 L3 OSDG
10 K1 OSDB
IC1001
CXD9760GP
SYSTEM IC
(TO 12/19) GSYNC1
OCLK
R2 102
GCLK1
TP1000 XX
JL1018
R1037 1/16W CHIP
ACTIVE
PULSE
OHD
OVD
OFLD
VSO
YM
YS
P1 14 JL1013
N3 179 JL1014
R1038 1/16W CHIP
JL1017
R1 15
P3 180
JL1019
P2 101 JL1015
R1039 1/16W CHIP
GVS1
GHS1
TP1002 XX
TP1001 XX
H1 8 JL1016
R1040 10k 1/16W CHIP
K2 97
K3 176
R1041 10k 1/16W CHIP
GND_1

C (9/19)

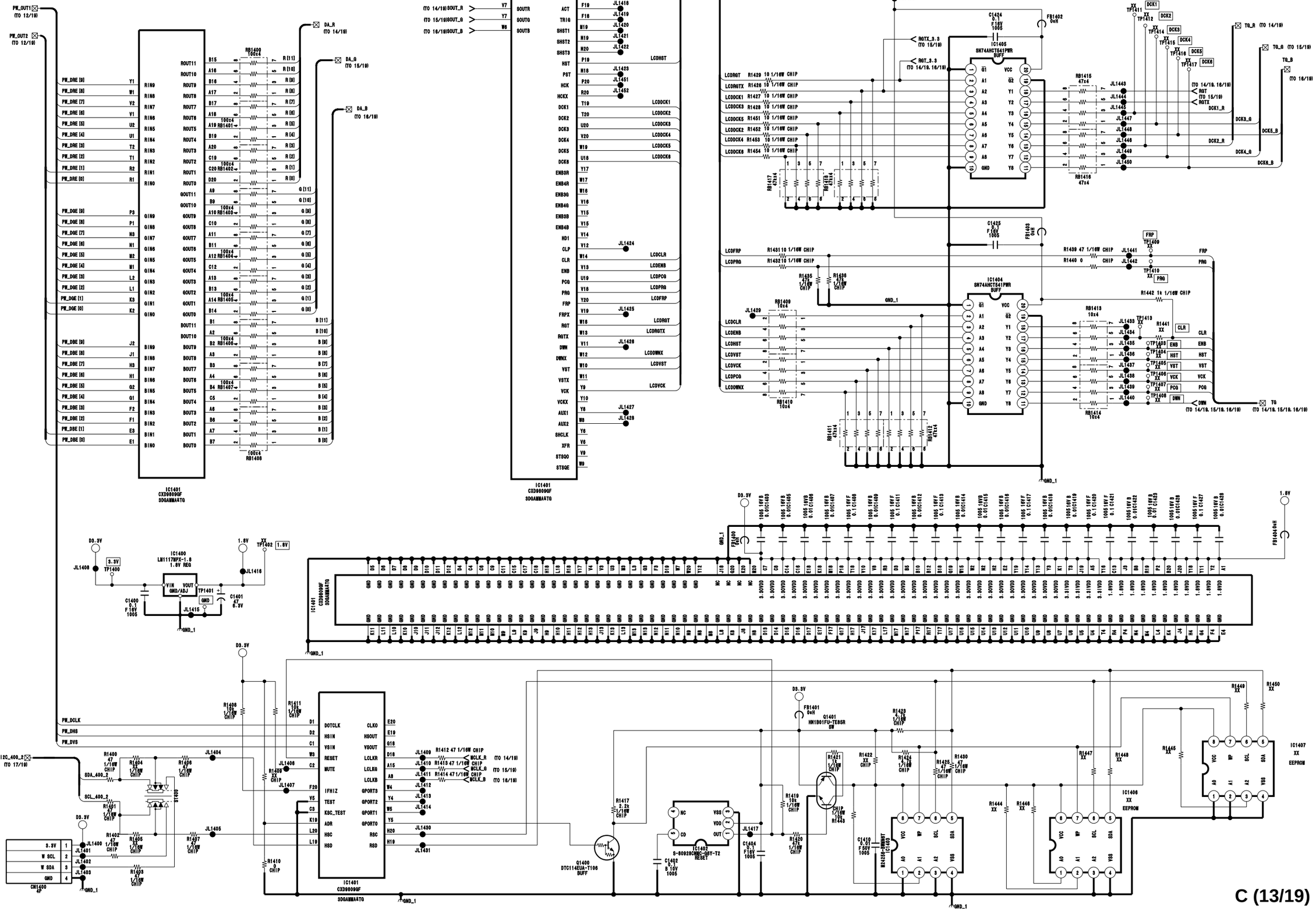

JL1100
IC1101
NE67814DD
DDR TERMINATION REG
D2.5V
FB1102 0uH
C1102 10 6.3V B 2012
C1103 0.1 10V F
C1106 0.1 16V F
C1107 0.1 16V F
C1108 0.1 16V F
C1109 0.1 16V F
C1110 220 6.3V
GND_1
VREF (TO 11/19)
C1111 0.1 16V F 1005
C1112 0.1 16V F
C1113 0.1 16V F
C1114 0.1 16V F
C1115 0.1 16V F
C1116 0.1 16V F
C1117 0.1 16V F
C1128 0.1 16V F
C1129 0.1 16V F
C1132 0.1 16V F
C1136 0.1 16V F
C1138 0.1 16V F
C1140 0.1 16V F
C1142 0.1 16V F
DCLKP
DCLKN
DCKE
DCS
DRAS
DCAS
DWE
DQS
DMALL
R1111 47 1/16W CHIP
R1112 47 1/16W CHIP
R1113 47 1/16W CHIP
R1114 47 1/16W CHIP
R1115 47 1/16W CHIP
R1116 47 1/16W CHIP
R1117 47 1/16W CHIP
R1118 47 1/16W CHIP
R1119 47 1/16W CHIP
RB1111 47x4
RB1112 47x4
RB1113 47x4
RB1114 47x4
RB1117 47x4
RB1119 47x4
RB1120 47x4
RB1121 47x4
R1120 1/16W CHIP
R1122 1/16W CHIP
RB1123 47x4
RB1124 47x4
RB1126 47x4
DDQ [0]
DDQ [1]
DDQ [2]
DDQ [3]
DDQ [4]
DDQ [5]
DDQ [6]
DDQ [7]
DDQ [8]
DDQ [9]
DDQ [10]
DDQ [11]
DDQ [12]
DDQ [13]
DDQ [14]
DDQ [15]
DDQ [16]
DDQ [17]
DDQ [18]
DDQ [19]
DDQ [20]
DDQ [21]
DDQ [22]
DDQ [23]
DDQ [24]
DDQ [25]
DDQ [26]
DDQ [27]
DDQ [28]
DDQ [29]
DDQ [30]
DDQ [31]
DBA0
DBA1
DAD [0]
DAD [1]
DAD [2]
DAD [3]
DAD [4]
DAD [5]
DAD [6]
DAD [7]
DAD [8]
DAD [9]
DAD [10]
IC1001
CXD9780GP
SYSTEM IC
RB1100 22x4
RB1101 22x4
RB1102 22x4
RB1103 22x4
RB1104 22x4
RB1105 22x4
RB1106 22x4
RB1107 22x4
RB1108 22x4
RB1109 22x4
RB1110 22x4
R1101 22 1/16W CHIP
R1102 22 1/16W CHIP
R1103 22 1/16W CHIP
R1104 22 1/16W CHIP
R1105 22 1/16W CHIP
R1106 22 1/16W CHIP
R1107 22 1/16W CHIP
R1108 22 1/16W CHIP
R1109 22 1/16W CHIP
R1110 22 1/16W CHIP
DDQ0
DDQ1
DDQ2
DDQ3
DDQ4
DDQ5
DDQ6
DDQ7
DDQ8
DDQ9
DDQ10
DDQ11
DDQ12
DDQ13
DDQ14
DDQ15
DDQ16
DDQ17
DDQ18
DDQ19
DDQ20
DDQ21
DDQ22
DDQ23
DDQ24
DDQ25
DDQ26
DDQ27
DDQ28
DDQ29
DDQ30
DDQ31
DCLKP
DCLKN
DCKE
DCS
DRAS
DCAS
DWE
DQS
DBA0
DBA1
DAD0
DAD1
DAD2
DAD3
DAD4
DAD5
DAD6
DAD7
DAD8
DAD9
DAD10
DMALL
IC1102
K4D263238F-UC50T
DDR MEMORY
RB1125 22x4
RB1127 22x4
RB1128 22x4
RB1129 22x4
FB1100 0uH
FB1101 0uH
C1153 10 6.3V B 2012
C1154 10 6.3V 2012 B
C1155 0.1 16V F 1005
R1124 47 1/16W CHIP
R1129 1/16W CHIP
CHIP 1/16W R1121
C1124 0.01 16V B
C1133 0.01 16V B
C1135 0.01 16V B
C1137 0.01 16V B
C1139 0.01 16V B
C1141 0.01 16V B
C1145 0.01 16V B
C1146 0.01 16V B
C1147 0.01 16V B
C1148 0.01 16V B
C1149 0.01 16V B
C1118 0.01 16V B
C1119 0.01 16V B
C1120 0.01 16V B
C1121 0.01 16V B
C1122 0.01 16V B
RB1115 22x4
RB1116 22x4
RB1118 22x4


(TO 12/19)
GBUS1
IC1001
CXD9760GP
SYSTEM IC
RB1201 47x4
RB1202 47x4
RB1203 47x4
RB1204 47x4
RB1205 47x4
RB1206 47x4
RB1207 47x4
RB1208 47x4
RB1209 47x4
RB1210 47x4
RB1211 47x4
GRE [0]
GRE [1]
GRE [2]
GRE [3]
GRE [4]
GRE [5]
GRE [6]
GRE [7]
GRO [0]
GRO [1]
GRO [2]
GRO [3]
GRO [4]
GRO [5]
GRO [6]
GRO [7]
GGE [0]
GGE [1]
GGE [2]
GGE [3]
GGE [4]
GGE [5]
GGE [6]
GGE [7]
GGO [0]
GGO [1]
GGO [2]
GGO [3]
GGO [4]
GGO [5]
GGO [6]
GGO [7]
GBE [0]
GBE [1]
GBE [2]
GBE [3]
GBE [4]
GBE [5]
GBE [6]
GBE [7]
GBO [0]
GBO [1]
GBO [2]
GBO [3]
GBO [4]
GBO [5]
GBO [6]
GBO [7]
D2.5V
D3.3V
IC1201
AIC1117A-CE
1.5V REG
ADJ
JL1200
FB1201 0uH
FB1202 0uH
FB1203 0uH
FB1200 0uH
GND_1
(TO 10/19)
VREF
IC1001
CXD9760GP
SYSTEM IC
VSS
VSS2
VDDS
DLLPVSL1
DLLPVSL2
DLLPVSL3
DLLPVSL4
DLLPVSL5
DLLPVDM
DLLPVSM
MREF
PLLAVV
TREF
PLLAVS

C (11/19)

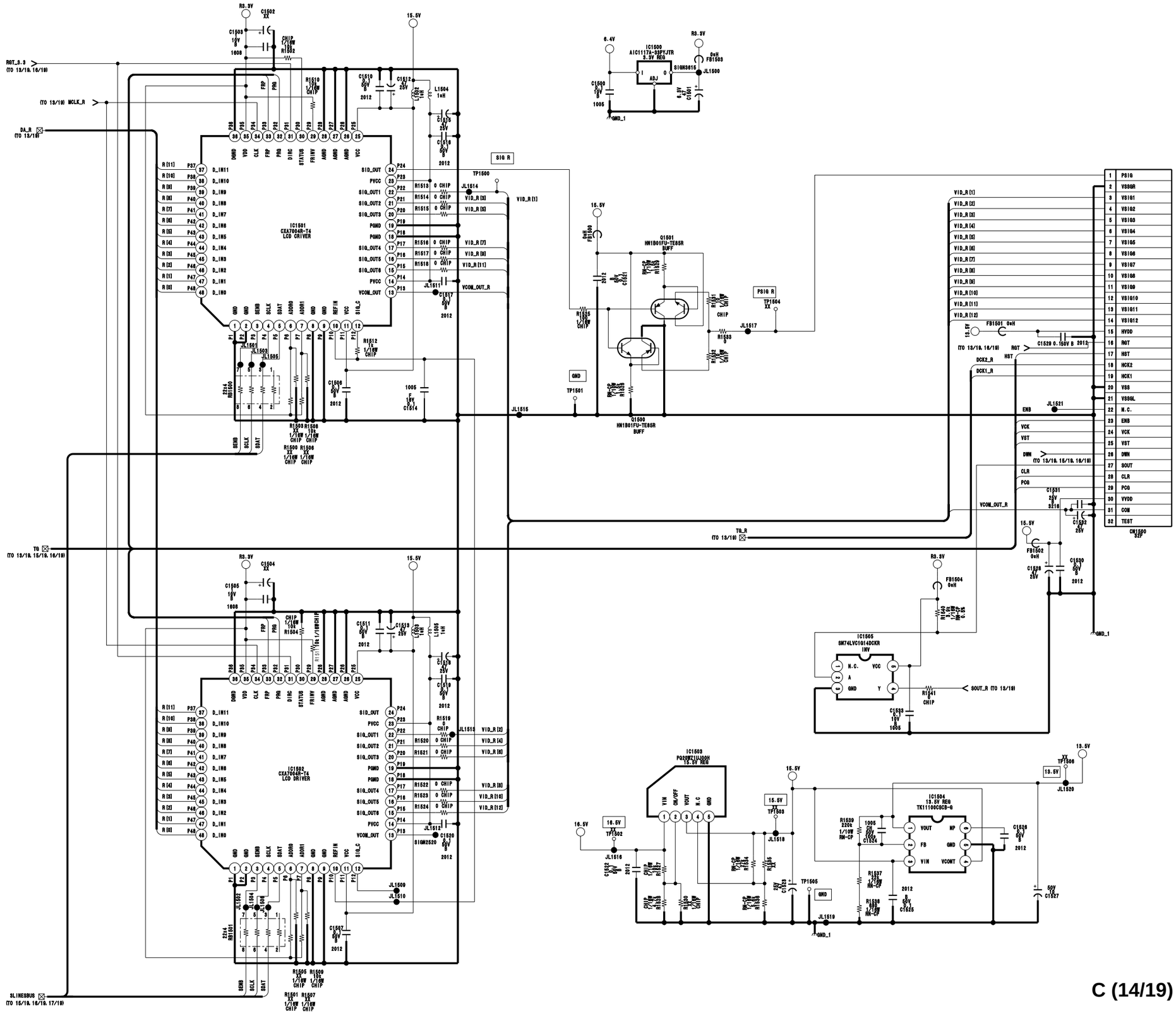

GRAPHIC PORT
VIDEO PORT
IC1301 PW168B-10VL SCAN CONVERTER
IC1302 S-80828CNMC-B8Y-T2 RESET
IC1303 SPREAD SPECTRUM
IC1304 74VHC02FTCX NOR
IC1305 MX29LV800TTC-70G-90PW SCAN CONVERTER
DISPLAY PORT
POWER AND GROUND
3.3V_SC
D3.3V
1.5V_SC
D2.5V
RESETN
PIC_MUTE
RXD_SC
TXD_SC
ROMWEN
BHENN
BOOTWE
VPPEN
PW_DRE [0]
PW_DRE [1]
PW_DGE [0]
PW_DGE [1]
PW_DBE [0]
PW_DBE [1]

C (13/19)

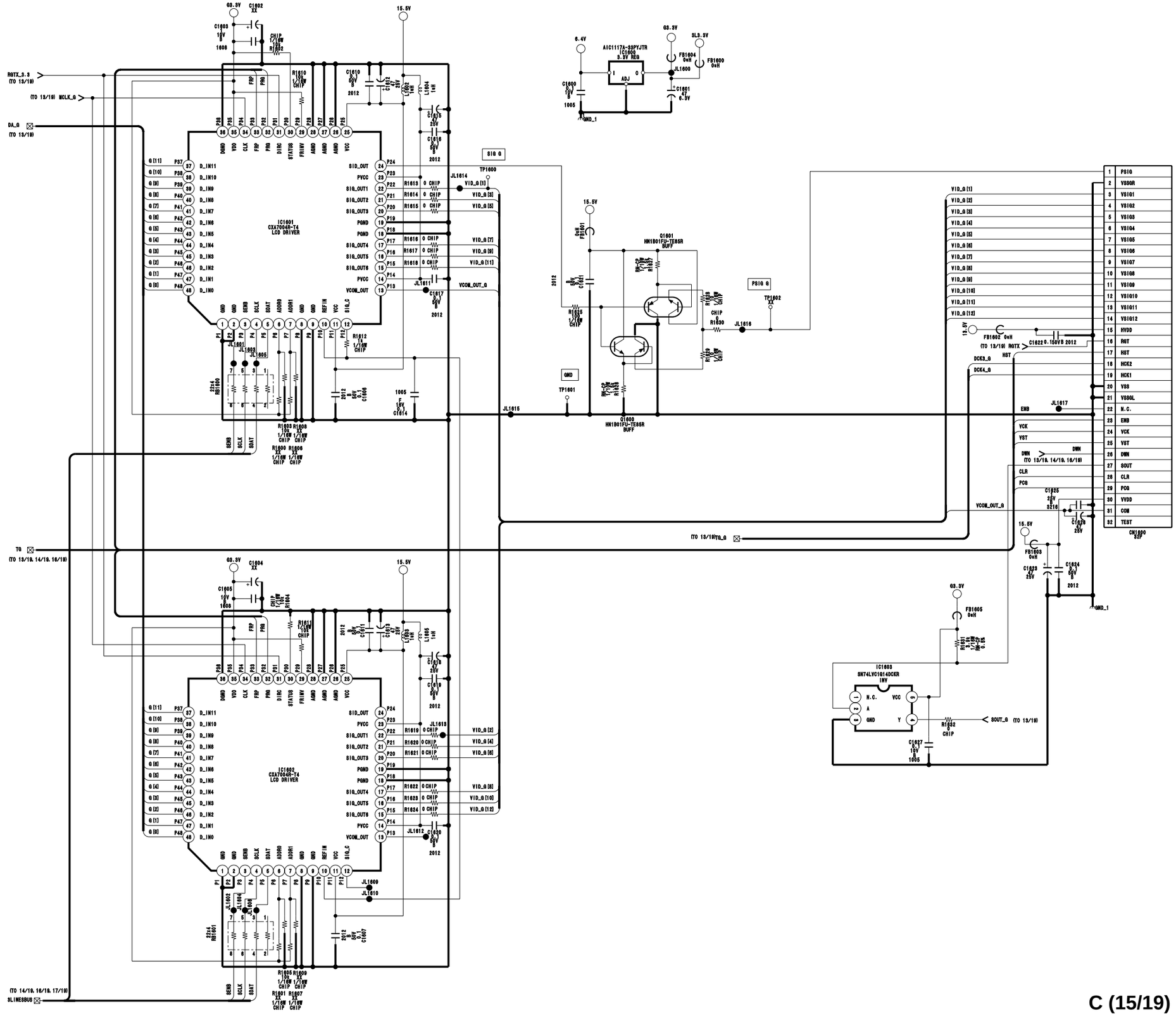


C (13/19)

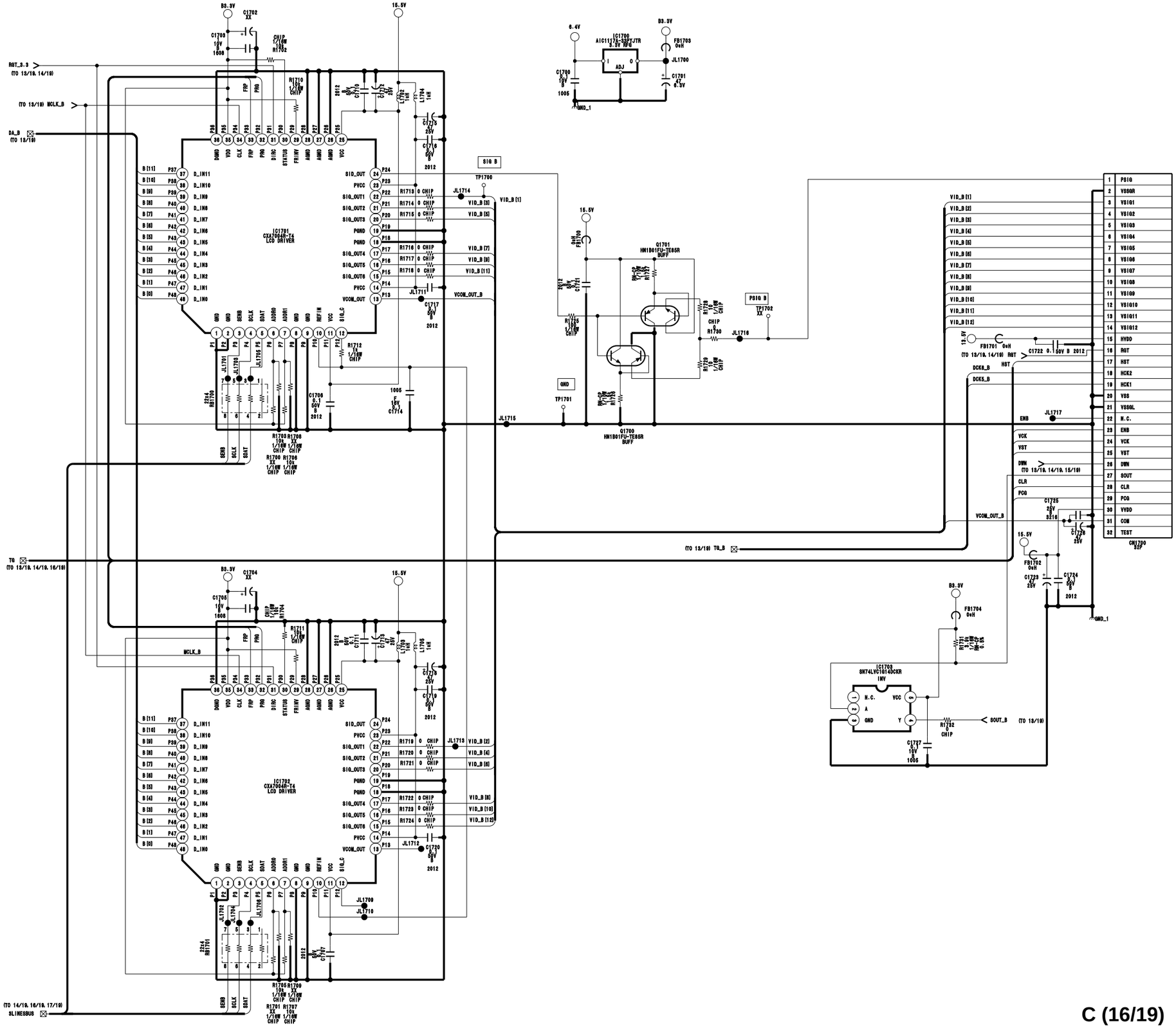
6-14


IC1501
CXA7004R-T4
LCD CRIVER
IC1502
CXA7004R-T4
LCD DRIVER
IC1500
AIC1117A-33PY.TR
3.3V REG
Q1501
HN1B01FU-TE85R
BUFF
Q1500
HN1B01FU-TE85R
BUFF
IC1503
PQ20WZ1U100R
15.5V REG
IC1504
13.5V REG
TK11100CSCB-G
IC1505
SN74LVC1G14DCKR
INV
CN1500
32P
SIG R
PSIG R
VID_R [1]
VID_R [2]
VID_R [3]
VID_R [4]
VID_R [5]
VID_R [6]
VID_R [7]
VID_R [8]
VID_R [9]
VID_R [10]
VID_R [11]
VID_R [12]
VCOM_OUT_R
SOUT_R (TO 13/19)
RGT_3.3 (TO 13/19, 16/19)
MCLK_R (TO 13/19)
DA_R (TO 13/19)
TG (TO 13/19, 15/19, 16/19)
SLINESBUS (TO 15/19, 16/19, 17/19)
TG_R (TO 13/19)
DCK2_R
DCK1_R
RGT
HST
ENB
VCK
VST
DWN (TO 13/19, 15/19, 16/19)
CLR
PCG
GND
GND_1

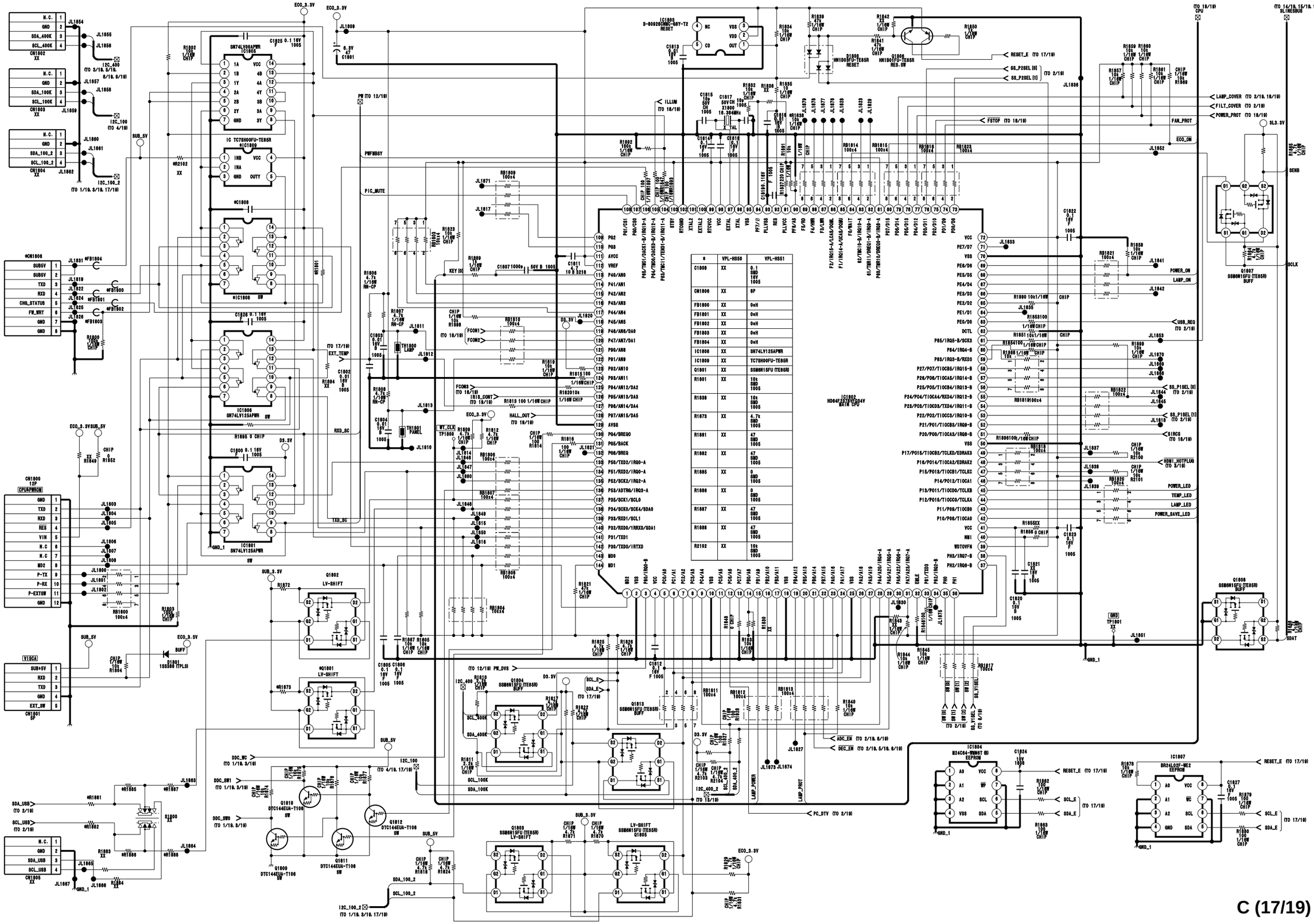
C (14/19)


IC1601
CXA7004R-T4
LCD DRIVER
IC1602
CXA7004R-T4
LCD DRIVER
AIC1117A-33PYJTR
IC1600
3.3V REG
IC1603
SN74LVC1G14DCKR
INV
Q1601
HN1B01FU-TE85R
BUFF
Q1600
HN1D01FU-TE85R
BUFF
CN1800
32P
RGTX_3.3
(TO 13/19)
(TO 13/19) MCLK_G
DA_G
(TO 13/19)
SIG_G
PSIG_G
VCOM_OUT_G
TG
(TO 13/19,14/19,16/19)
SLINESBUB
(TO 14/19,16/19,17/19)
VID_G [1]
VID_G [2]
VID_G [3]
VID_G [4]
VID_G [5]
VID_G [6]
VID_G [7]
VID_G [8]
VID_G [9]
VID_G [10]
VID_G [11]
VID_G [12]
PSIG
VSSGR
VSIG1
VSIG2
VSIG3
VSIG4
VSIG5
VSIG6
VSIG7
VSIG8
VSIG9
VSIG10
VSIG11
VSIG12
HVDD
RGT
HST
HCK2
HCK1
VSS
VSSGL
N.C.
ENB
VCK
VST
DWN
SOUT
CLR
PCG
VVDD
COM
TEST
DCK3_G
DCK4_G
SOUT_G
(TO 13/19)
15.5V
6.4V
3.3V
3L3.3V
GND

C (15/19)


IC1701
CXA7064R-T4
LCD DRIVER
IC1702
CXA7064R-T4
LCD DRIVER
IC1700
AIC1117A-33PYJTR
3.3V REG
IC1703
SN74LVC1G14DCKR
INV
Q1700
HN1B01FU-TE85R
BUFF
Q1701
HN1B01FU-TE85R
BUFF
CH1790
22P
R1701 R1707
XX 10k
1/10W 1/10W
CHIP CHIP
R1705 R1709
10k XX
1/10W 1/10W
CHIP CHIP
R1700 R1706
XX 10k
1/10W 1/10W
CHIP CHIP
R1703 R1708
10k XX
1/10W 1/10W
CHIP CHIP
R1710 R1711
1/10W 1/10W
CHIP CHIP
R1712 R1713
XX XX
1/10W 1/10W
CHIP CHIP
R1714 R1715 R1716 R1717 R1718
R1719 R1720 R1721 R1722 R1723 R1724
0 CHIP
R1725 R1726
10k 1/10W
R1727 R1728
1/10W
R1729 R1730
1/10W
R1731
1.5k 1/10W
R1732
0 CHIP
C1700 C1701 C1702 C1703 C1704 C1705
C1706 C1707 C1708 C1709 C1710 C1711
C1712 C1713 C1714 C1715 C1716 C1717
C1718 C1719 C1720 C1721 C1722 C1723
C1724 C1725 C1726 C1727 C1728 C1729
C1730 C1731 C1732 C1733 C1734 C1735
C1737
FB1700 FB1701 FB1702 FB1703 FB1704
L1702 L1703 L1704 L1705 L1706
JL1700 JL1701 JL1702 JL1703 JL1704 JL1705
JL1706 JL1707 JL1708 JL1709 JL1710 JL1711
JL1712 JL1713 JL1714 JL1715 JL1716 JL1717
JL1718
RB1700 RB1701
2214
TP1700 TP1701 TP1702
SIG B
PS1G B
VCOM_OUT_B
B3.9V
15.5V
6.4V
GND
GND_1
VID_B [1]
VID_B [2]
VID_B [3]
VID_B [4]
VID_B [5]
VID_B [6]
VID_B [7]
VID_B [8]
VID_B [10]
VID_B [11]
VID_B [12]
RGT_3.3
(TO 13/19, 14/19)
(TO 13/19) MCLK_B
DA_B
(TO 13/19)
TG
(TO 13/19, 14/19, 16/19)
(TO 13/19) TG_B
(TO 14/19, 16/19, 17/19)
SLINEBUS
(TO 13/19, 14/19, 15/19)
SOUT_B
(TO 13/19)
1 PS1G
2 VSSGR
3 VS1G1
4 VS1G2
5 VS1G3
6 VS1G4
7 VS1G5
8 VS1G6
9 VS1G7
10 VS1G8
11 VS1G9
12 VS1G10
13 VS1G11
14 VS1G12
15 HVDD
16 RGT
17 HST
18 HCK2
19 HCK1
20 VSS
21 VSSGL
22 N.C.
23 ENB
24 VCK
25 VST
26 DWN
27 SOUT
28 CLR
29 PCG
30 VVDD
31 COM
32 TEST

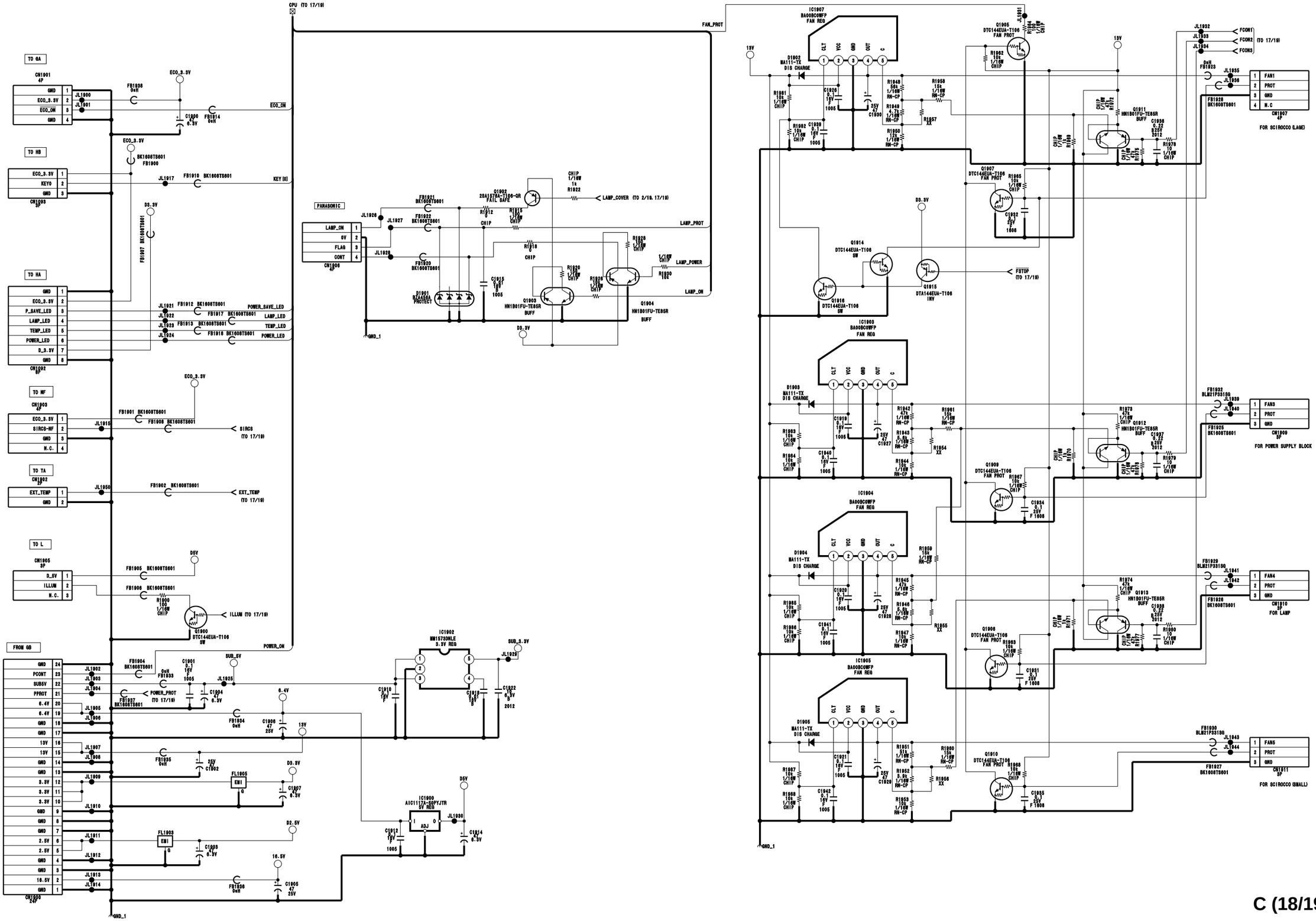
C (16/19)



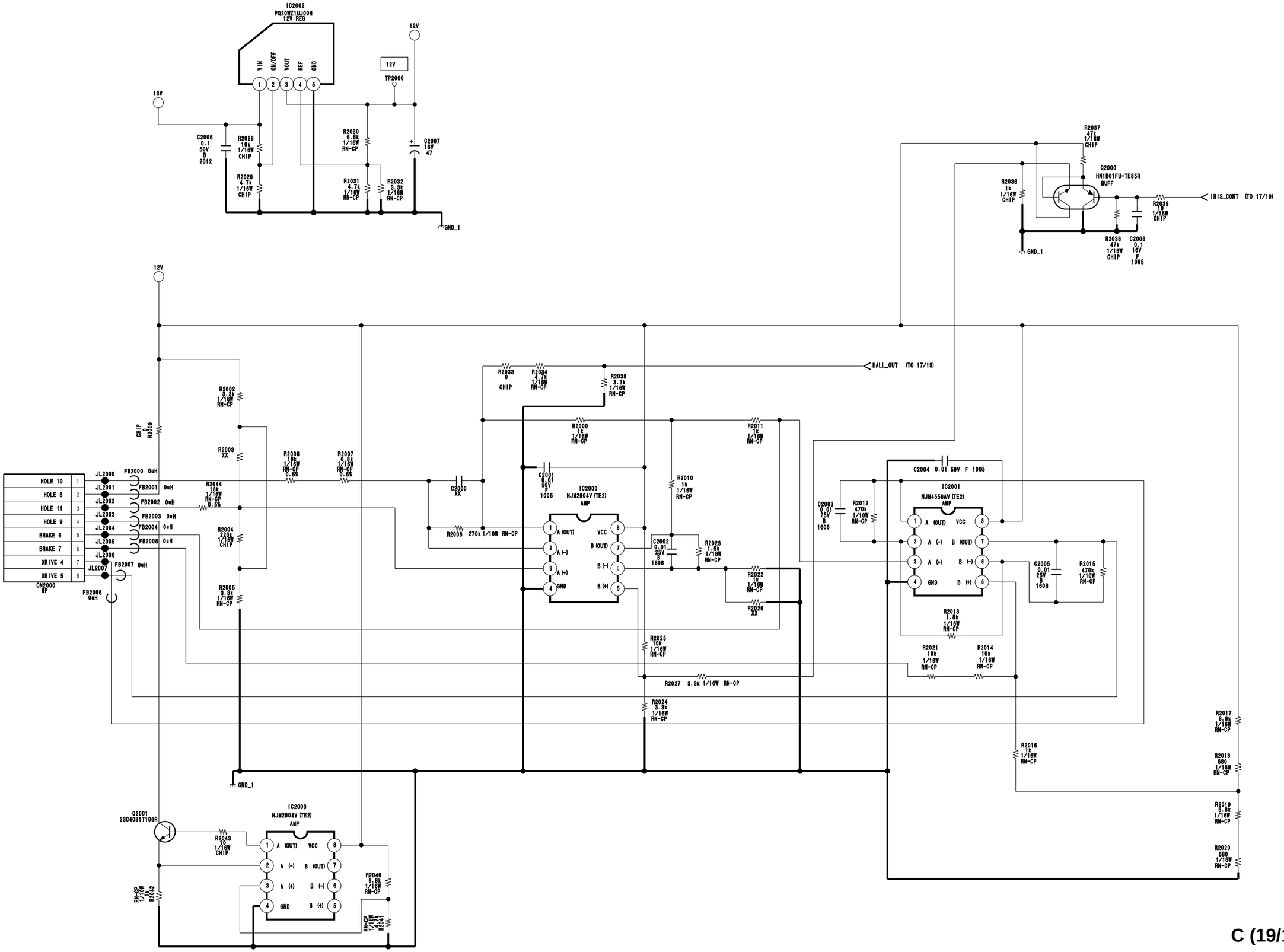
#	VPL-HS50	VPL-HS51
C1808	XX	0.1 SMD 16V 1005
CN1806	XX	8P
FB1800	XX	0eH
FB1801	XX	0eH
FB1802	XX	0eH
FB1803	XX	0eH
FB1804	XX	0eH
IC1808	XX	SN74LV125APWR
IC1809	XX	TC7SH00FU-TE85R
Q1801	XX	SSM6N15FU (TE85R)
R1801	XX	10k SMD 1005
R1838	XX	10k SMD 1005
R1873	XX	4.7k SMD 1005
R1881	XX	47 SMD 1005
R1882	XX	47 SMD 1005
R1885	XX	0 SMD 1005
R1886	XX	0 SMD 1005
R1887	XX	47 SMD 1005
R1888	XX	47 SMD 1005
R2102	XX	10k SMD 1005

VPL-HS50/HS51

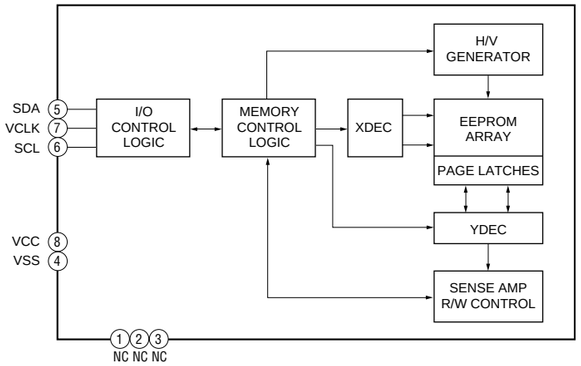
A B C D E F G H


CPU (TO 17/19)
TO GA
CN1901 4P
GND
ECO_3.3V
ECO_ON
GND
JL1900
JL1901
FB1938 0ΩH
FB1914 0ΩH
C1920 47 6.3V
ECO_ON
ECO_3.3V
TO HB
CN1903 3P
ECO_3.3V
KEY0
GND
JL1917
FB1910 BK1608TS601
KEY (0)
BK1608TS601 FB1900
FB1907 BK1608TS601
D3.3V
TO HA
CN1902 8P
GND
ECO_3.3V
P_SAVE_LED
LAMP_LED
TEMP_LED
POWER_LED
D_3.3V
GND
JL1921 FB1912 BK1608TS601 POWER_SAVE_LED
JL1922 FB1917 BK1608TS601 LAMP_LED
JL1923 FB1913 BK1608TS601 TEMP_LED
JL1924 FB1918 BK1608TS601 POWER_LED
TO NF
CN1903 4P
ECO_3.3V
SIRCS-NF
GND
N.C.
JL1915
FB1901 BK1608TS601
FB1908 BK1608TS601
SIRCS (TO 17/19)
TO TA
CN1902 2P
EXT_TEMP
GND
JL1950
FB1902 BK1608TS601
EXT_TEMP (TO 17/19)
TO L
CN1905 3P
D_5V
ILLUM
N.C.
D5V
FB1905 BK1608TS601
FB1906 BK1608TS601
R1900 100 1/10W CHIP
ILLUM (TO 17/19)
Q1900 DTC144EUA-T106 SW
FROM GB
CN1900 24P
GND
PCONT
SUBSV
PPROT
6.4V
6.4V
GND
GND
13V
13V
GND
GND
3.3V
3.3V
3.3V
GND
GND
2.5V
2.5V
GND
GND
16.5V
GND
JL1902
JL1903
JL1904
JL1905
JL1906
JL1907
JL1908
JL1909
JL1910
JL1911
JL1912
JL1913
JL1914
FB1904 BK1608TS601
0ΩH FB1933
POWER_PROT (TO 17/19)
FB1937 BK1608TS601
C1901 0.1 16V F 1005
JL1925
C1904 47 6.3V
SUB_5V
FB1934 0ΩH
6.4V
C1906 47 25V
13V
FB1935 0ΩH
25V C1902
D3.3V
FL1905 EMI
C1907 47 6.3V
FL1903 EMI
C1903 47 6.3V
D2.5V
FB1936 0ΩH
16.5V
C1905 47 25V
GND_1
IC1902 MM1578DNLE 3.3V REG
SUB_3.3V
JL1929
C1910 0.1 16V F
C1918 0.01 16V B
C1922 6.8V B 2012
IC1900 AIC1117-60PYJTR 5V REG
I
O
ADJ
JL1930
C1912 0.1 16V F 1005
C1914 47 6.3V
D5V
PANASONIC
CN1906 4P
LAMP_ON
0V
FLAG
CONT
JL1926
JL1927
JL1928
FB1921 BK1608TS601
FB1922 BK1608TS601
FB1920 BK1608TS601
Q1902 2SA1576A-T106-QR FAIC SAFE
R1912
R1915 10k 1/10W CHIP
CHIP 1/10W 1k R1922
LAMP_COVER (TO 2/19,17/19)
R1918 0 CHIP
C1915 0.01 16V B 1005
D1901 RZ4.3EB2 PROTECT
Q1903 HN1B01FU-TE85R BUFF
R1920 1/10W CHIP
R1926 10k 1/10W CHIP
R1928 1/10W CHIP
R1930 0Ω
LAMP_PROT
LAMP_POWER
LAMP_ON
Q1904 HN1B01FU-TE85R BUFF
D3.3V
GND_1
FAN_PROT
IC1907 BA00BC0WFP FAN REG
CLT VCC GND OUT C
19V
D1902 MA111-TX DIS CHARGE
C1926 0.1 16V F 1005
C1930 25V 47
R1948 56k 1/10W RN-CP
R1949 4.7k 1/10W RN-CP
R1950 12k 1/10W RN-CP
R1958 18k 1/10W RN-CP
R1957 XX
R1981 10k 1/10W CHIP
R1982 10k 1/10W CHIP
C1939 0.1 16V F 1005
JL1931
Q1905 DTC144EUA-T106 FAN PROT
R1962 10k 1/10W CHIP
JL1932
JL1933
JL1934
FCON1
FCON2 (TO 17/19)
FCON3
0ΩH FB1923
JL1935
JL1936
FB1928 BK1608TS601
1 FAN1
2 PROT
3 GND
4 N.C
CN1907 4P
FOR SCIROCCO (LAGE)
Q1907 DTC144EUA-T106 FAN PROT
R1965 10k 1/10W CHIP
C1932 0.1 25V F 1608
Q1811 HN1B01FU-TE85R BUFF
R1970 CHIP 1/10W
R1969 CHIP 1/10W
R1971 CHIP 1/10W
C1938 0.22 6.25V 2012
R1979 10 1/10W CHIP
Q1914 DTC144EUA-T106 SW
Q1916 DTC144EUA-T106 SW
Q1915 DTA144EUA-T106 INV
F6TOP (TO 17/19)
IC1903 BA00BC0WFP FAN REG
D1903 MA111-TX DIS CHARGE
C1919 0.1 16V F 1005
C1927 25V 47
R1942 47k 1/10W RN-CP
R1943 5.6k 1/10W RN-CP
R1944 18k 1/10W RN-CP
R1961 10k 1/10W RN-CP
R1954 XX
R1983 10k 1/10W CHIP
R1984 10k 1/10W CHIP
C1940 0.1 16V F 1005
FB1932 BLM21PS180
JL1939
JL1940
FB1925 BK1608TS601
1 FAN3
2 PROT
3 GND
CN1909 3P
FOR POWER SUPPLY BLOCK
R1973 47k 1/10W CHIP
Q1912 HN1B01FU-TE85R BUFF
C1937 0.22 6.25V 2012
R1979 10 1/10W CHIP
Q1909 DTC144EUA-T106 FAN PROT
R1967 10k 1/10W CHIP
C1934 0.1 25V F 1008
IC1904 BA00BC0WFP FAN REG
D1904 MA111-TX DIS CHARGE
C1920 0.1 16V F 1005
C1928 25V 47
R1945 47k 1/10W RN-CP
R1946 5.6k 1/10W RN-CP
R1947 18k 1/10W RN-CP
R1959 18k 1/10W RN-CP
R1955 XX
R1985 10k 1/10W CHIP
R1986 10k 1/10W CHIP
C1941 0.1 16V F 1005
FB1929 BLM21PS330
JL1941
JL1942
FB1926 BK1608TS601
1 FAN4
2 PROT
3 GND
CN1910 3P
FOR LAMP
R1974 47k 1/10W CHIP
Q1913 HN1B01FU-TE85R BUFF
C1938 0.22 6.25V 2012
R1980 10 1/10W CHIP
Q1908 DTC144EUA-T106 FAN PROT
R1963 10k 1/10W CHIP
C1931 0.1 25V F 1008
IC1905 BA00DC0WFP FAN REG
D1905 MA111-TX DIS CHARGE
C1921 0.1 16V F 1005
C1929 25V 47
R1951 51k 1/10W RN-CP
R1952 3.9k 1/10W RN-CP
R1953 18k 1/10W RN-CP
R1960 10k 1/10W RN-CP
R1956 XX
R1987 10k 1/10W CHIP
R1988 10k 1/10W CHIP
C1942 0.1 16V F 1005
FB1933 BLM21PS330
JL1943
JL1944
FB1927 BK1608TS601
1 FAN5
2 PROT
3 GND
CN1911 3P
FOR SCIROCCO (SMALL)
Q1910 DTC144EUA-T106 FAN PROT
R1968 10k 1/10W CHIP
C1935 0.1 25V F 1008
GND_1

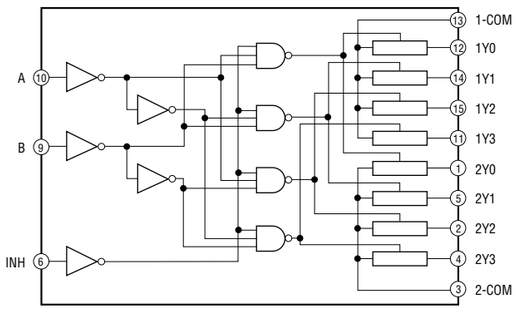
C (18/19)


IC2002
PQ20WZ1UJ00H
12V REG
VIN
ON/OFF
VOUT
REF
GND
12V
TP2000
13V
C2006 0.1 50V B 2012
R2028 10k 1/16W CHIP
R2029 4.7k 1/16W CHIP
R2030 6.8k 1/16W RN-CP
R2031 4.7k 1/16W RN-CP
R2032 3.3k 1/16W RN-CP
C2007 16V 47
GND_1
R2037 47k 1/16W CHIP
Q2000 HN1B01FU-TE85R BUFF
R2036 1k 1/16W CHIP
R2039 1k 1/16W CHIP
IRIS_CONT (TO 17/19)
R2038 47k 1/16W CHIP
C2008 0.1 16V F 1005
HALL_OUT (TO 17/19)
R2033 0 CHIP
R2034 4.7k 1/16W RN-CP
R2035 3.3k 1/16W RN-CP
R2009 1k 1/16W RN-CP
R2011 1k 1/16W RN-CP
R2010 1k 1/16W RN-CP
C2001 0.01 50V F 1005
C2000 XX
R2008 270k 1/10W RN-CP
IC2000 NJM2904V (TE2) AMP
C2002 0.01 25V B 1608
R2023 1.5k 1/16W RN-CP
R2022 1k 1/16W RN-CP
R2026 XX
R2025 10k 1/16W RN-CP
R2027 3.3k 1/16W RN-CP
R2024 3.3k 1/16W RN-CP
C2004 0.01 50V F 1005
IC2001 NJM4556AV (TE2) AMP
C2003 0.01 25V B 1608
R2012 470k 1/10W RN-CP
C2005 0.01 25V B 1608
R2015 470k 1/10W RN-CP
R2013 1.8k 1/16W RN-CP
R2021 10k 1/16W RN-CP
R2014 10k 1/16W RN-CP
R2016 1k 1/16W RN-CP
R2017 6.8k 1/16W RN-CP
R2018 680 1/16W RN-CP
R2019 6.8k 1/16W RN-CP
R2020 680 1/16W RN-CP
R2002 3.3k 1/16W RN-CP
CHIP R2000
R2003 XX
R2006 10k 1/16W RN-CP 0.5%
R2007 6.8k 1/16W RN-CP 0.5%
R2044 10k 1/16W RN-CP 0.5%
R2004 220k 1/16W CHIP
R2005 3.3k 1/16W RN-CP
CN2000 8P
HOLE 10
HOLE 8
HOLE 11
HOLE 9
BRAKE 6
BRAKE 7
DRIVE 4
DRIVE 5
JL2000
JL2001
JL2002
JL2003
JL2004
JL2005
JL2006
JL2007
FB2000 0uH
FB2001 0uH
FB2002 0uH
FB2003 0uH
FB2004 0uH
FB2005 0uH
FB2007 0uH
FB2006 0uH
Q2001 2SC4081T106R
IC2003 NJM2904V (TE2) AMP
R2043 1k 1/16W CHIP
R2040 6.8k 1/16W RN-CP
RN-CP 1/16W R2042
RN-CP 1/16W R2041

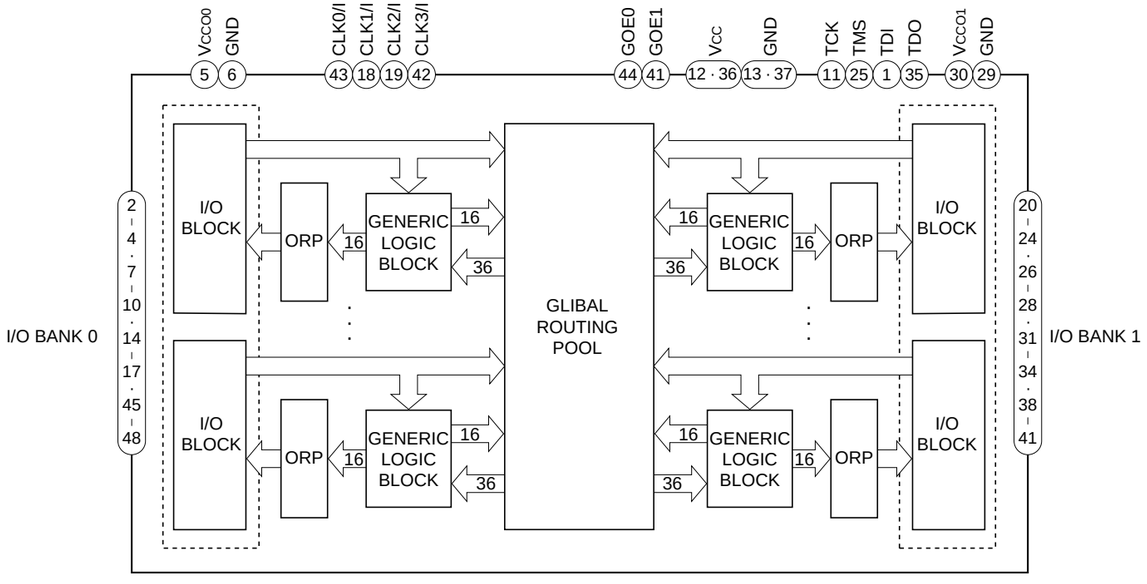
C (1/19) 24LC21AT/SN (IC100)



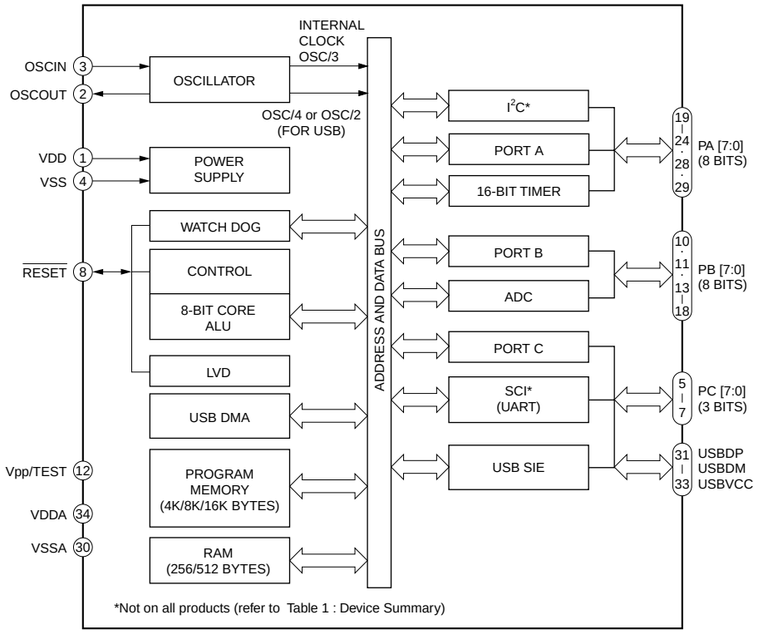
C (1/19, 31/19) SN74LV4052APWR (IC102, IC401)



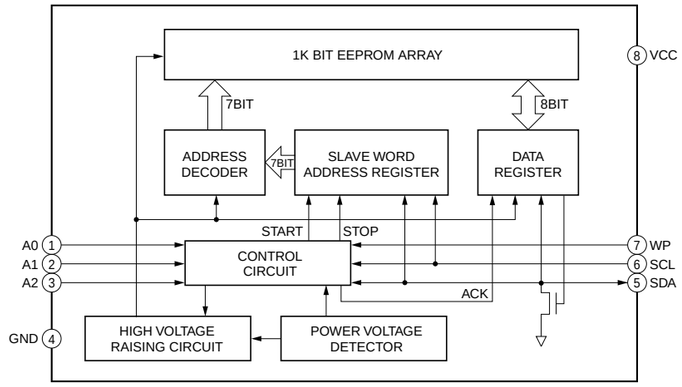
C (2/19) LC4032V-75TN48C-DLY2 (IC200)


VCCO0 GND CLK0/I CLK1/I CLK2/I CLK3/I GOE0 GOE1 VCC GND TCK TMS TDI TDO VCCO1 GND
5 6 43 18 19 42 44 41 12 · 36 13 · 37 11 25 1 35 30 29
I/O BANK 0
I/O BANK 1
2 · 4 · 7 · 10 · 14 · 17 · 45 · 48
20 · 24 · 26 · 28 · 31 · 34 · 38 · 41
I/O BLOCK
ORP
GENERIC LOGIC BLOCK
16
36
GLIBAL ROUTING POOL

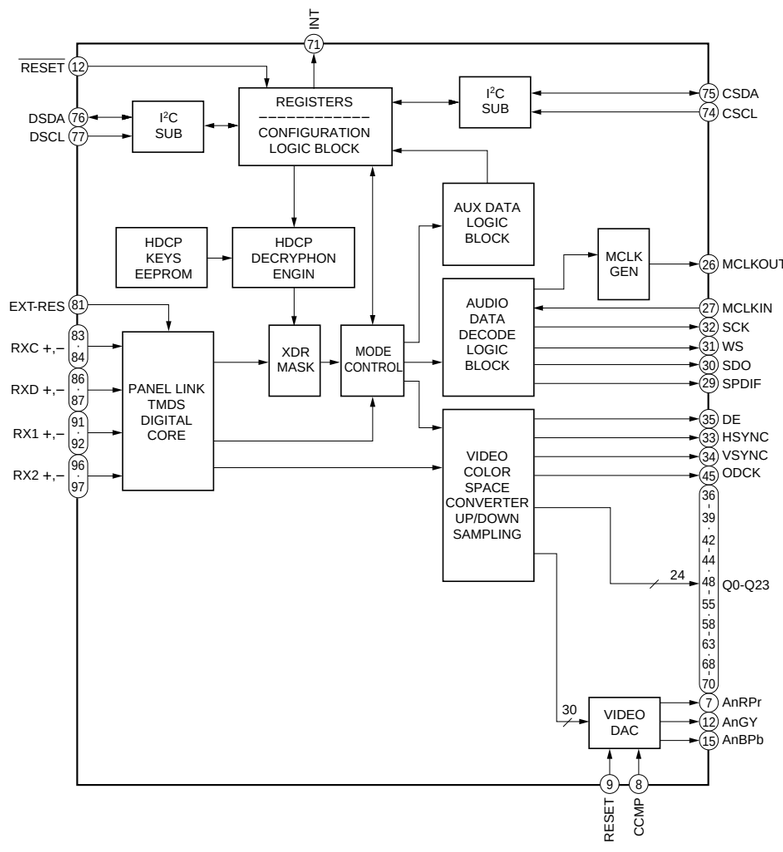
C (2/19) ST72T631K4M1-201 (IC201)



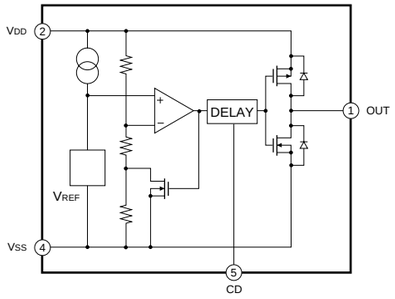
C (3/19, 17/19) BR24L02F-WE2 (IC400, IC1807)



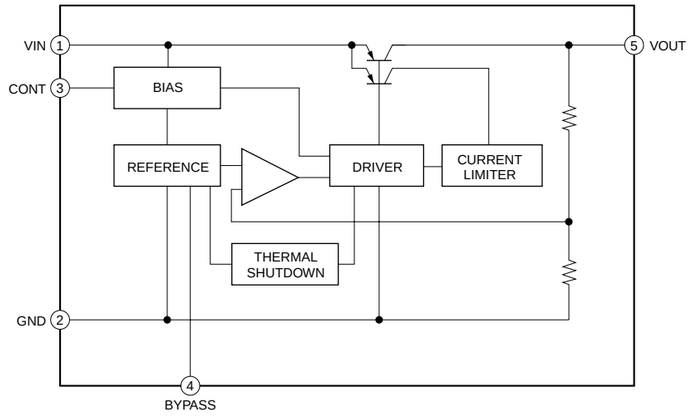
C (3/19) SII9993CTG100 (IC403)



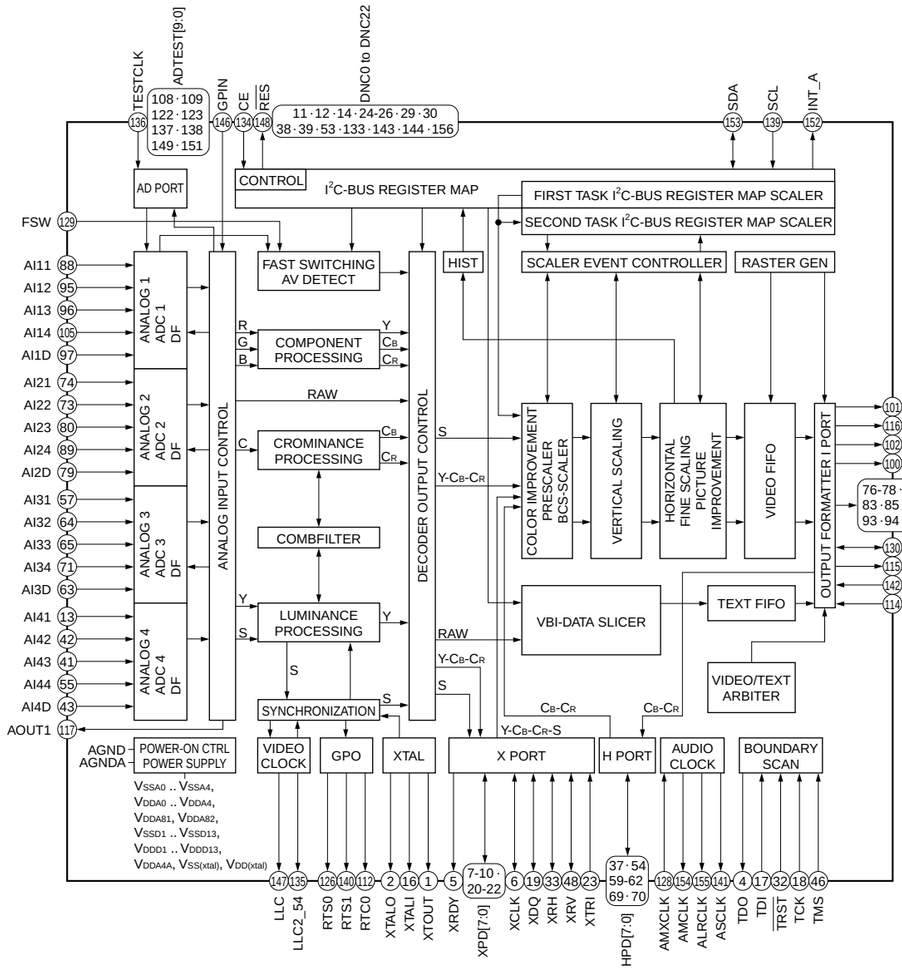
C (3/19, 5/19, 8/19, 9/19, 12/19, 13/19, 17/19)
S-80928CNMC-G8YT2G
(IC402, IC605, IC905, IC1000, IC1302, IC1402, IC1803)



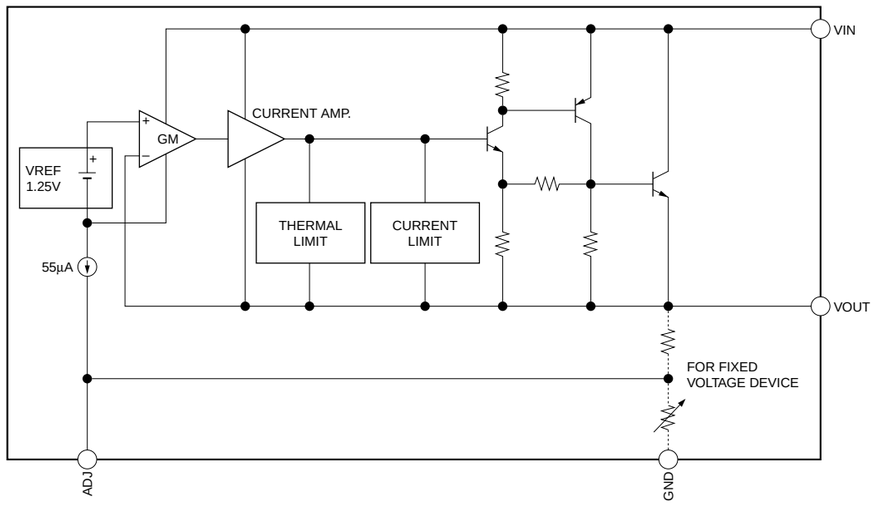
C (4/19, 5/19, 18/19) MM1573DNLE (IC502, IC503, IC1902)
C (5/19, 6/19) MM1571JNLE (IC602, IC701)



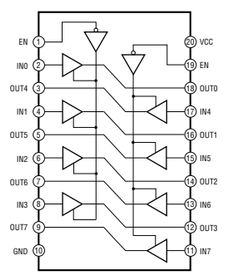
C (5/19) SAA7119E/V2 (IC601)



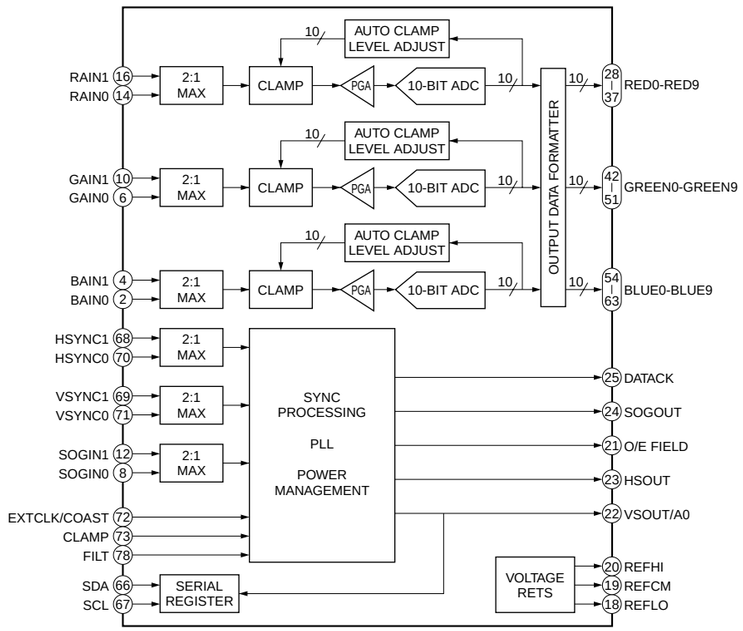
C (5/19) AIC1117A-18PYJTR (IC604)
C (4/19) AIC1117A-25PEJTR (IC501)
C (5/19, 6/19) AIC1117A-33PEJTR (IC600, IC700)
C (14/19, 15/19, 16/19) AIC1117A-33PYJTR (IC1500-IC1700)
C (4/19) AIC1117A-50PEJTR (IC500)
C (8/19, 18/19) AIC1117A-50PYJTR (IC904, IC1900)
C (11/19, 12/19) AIC1117A-PEJTR (IC1201, IC1300)



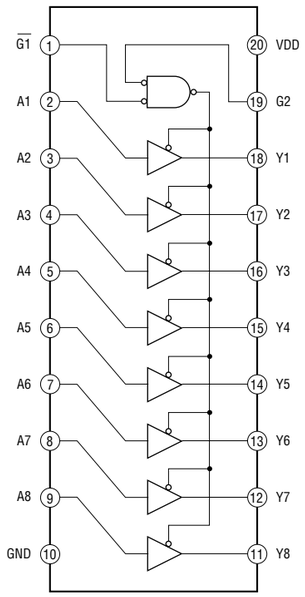
C (6/19) SN74LVC244APWR (IC703)



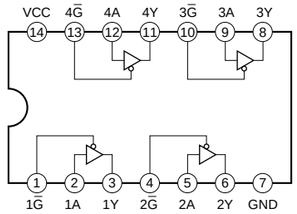
C (6/19) AD9981KSTZ-95 (IC702)



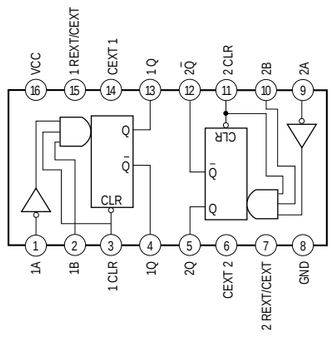
C (7/19) SN74LVC541APWR (IC800, IC801, IC802, IC803, IC804, IC805)
C (13/19) SN74AHCT541APWR (IC1404, IC405)



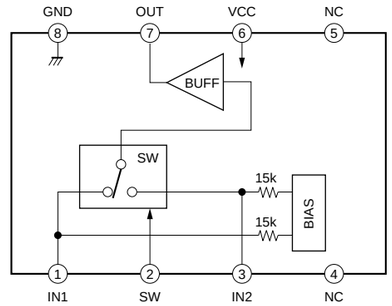
C (8/19) SN74LVC125APWR-12 (IC900)
C (17/19) SN74LV125APWR (IC1801, IC1806, IC1808)



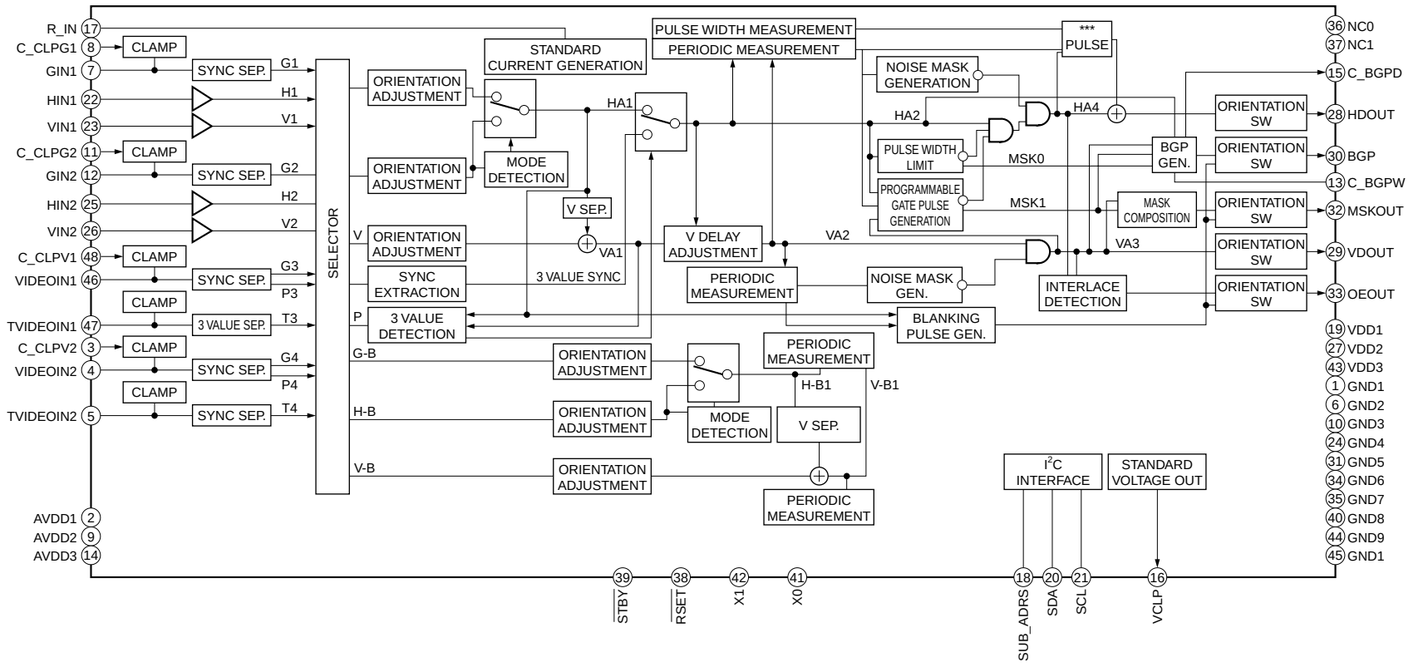
C (8/19) TC74VHC123AFT(EL) (IC901)



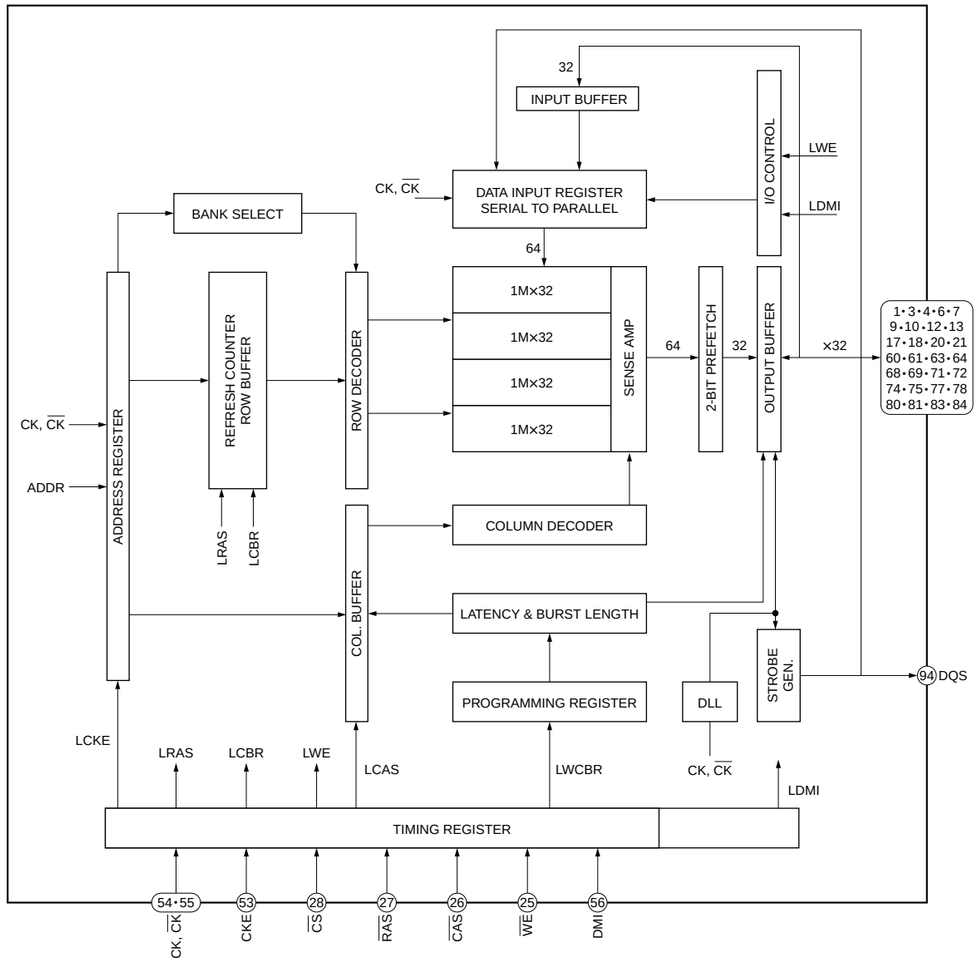
C (8/19) MM1115XFBE (IC902)



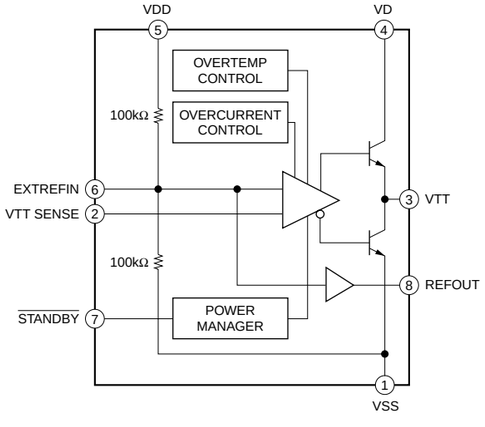
C (8/19) TE8200PF (IC906)



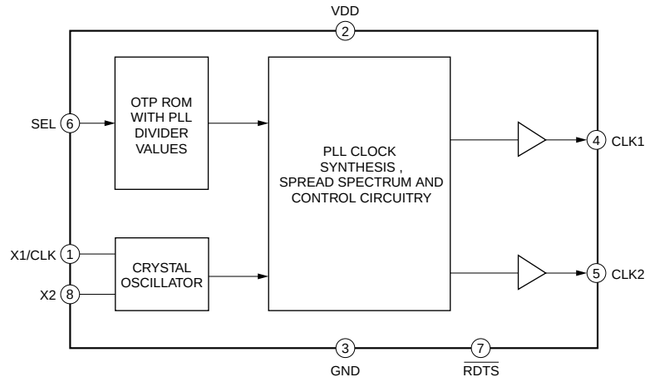
C (10/19) K4D263238F-UC50T (IC1102)



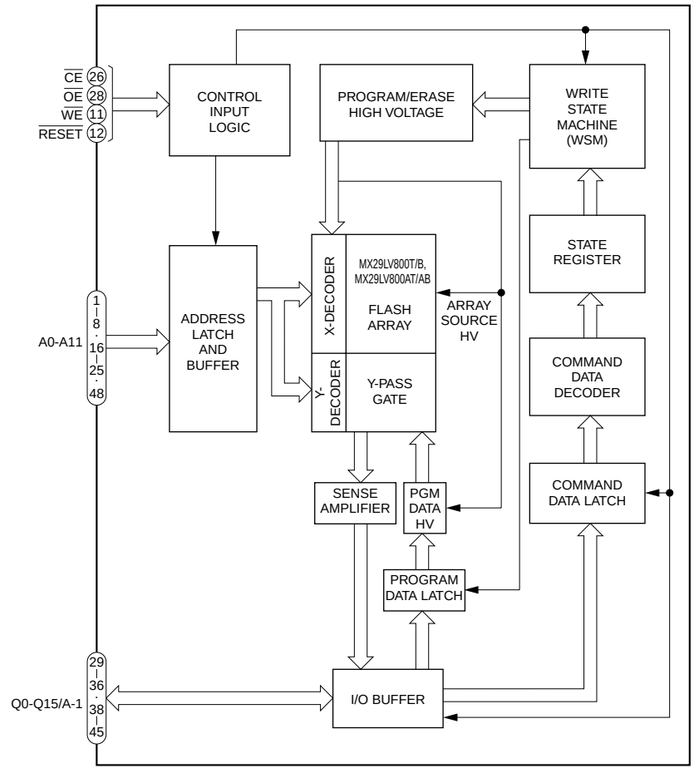
C (10/19) NE57814DD.118 (IC1101)



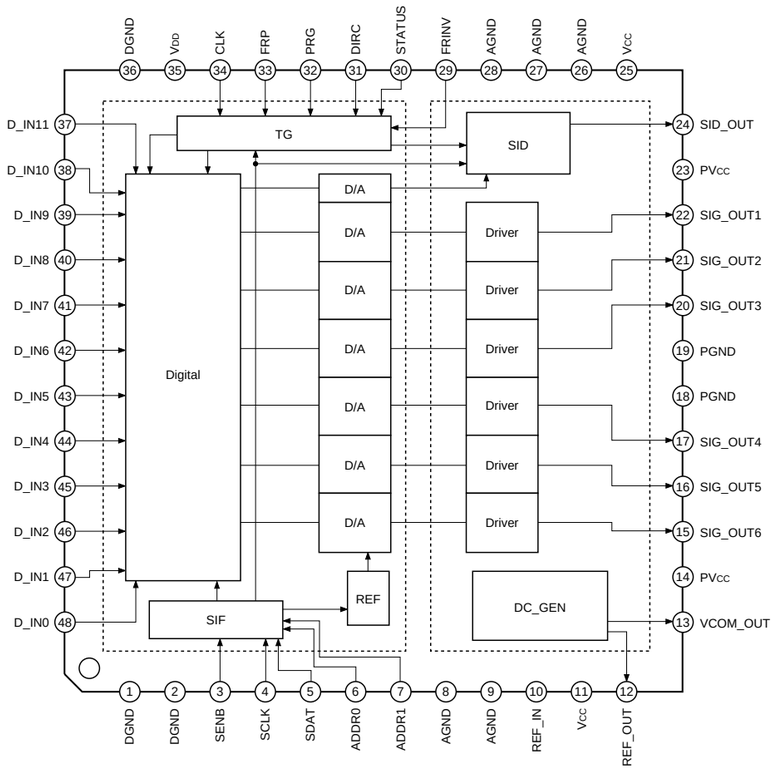
C (12/19) ICS342M-05LF (IC1303)



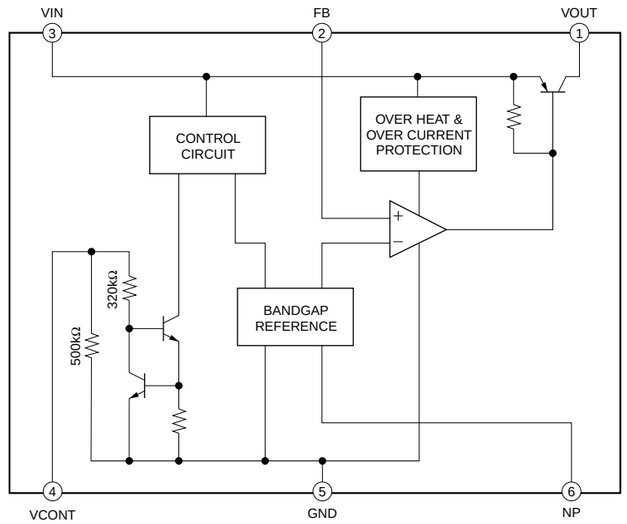
C (12/19) MX29LV800BTTC-70G-89PW (IC1305)



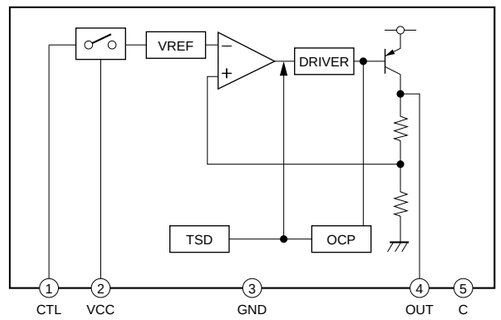
C (14/19,15/19,16/19) CXA7004R-T4 (IC1501, IC1502, IC1601, IC1602, IC1701, IC1702)



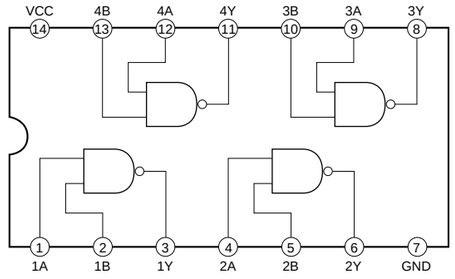
C (14/19) TK11100CSCB-G (IC1504)



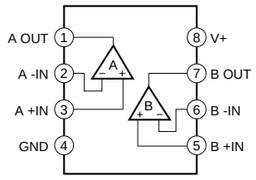
C (18/19) BA00BC0WFP-E2 (IC1903-IC905, IC907)



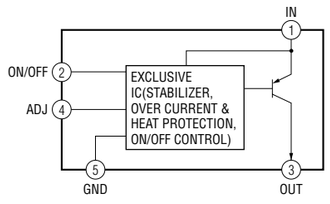
C (17/19) SN74LV00APWR (IC1805)



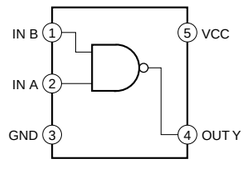
C (19/19) NJM2904V(TE2) (IC2000, IC2003)
C (19/19) NJM4556AV(TE2) (IC2001)

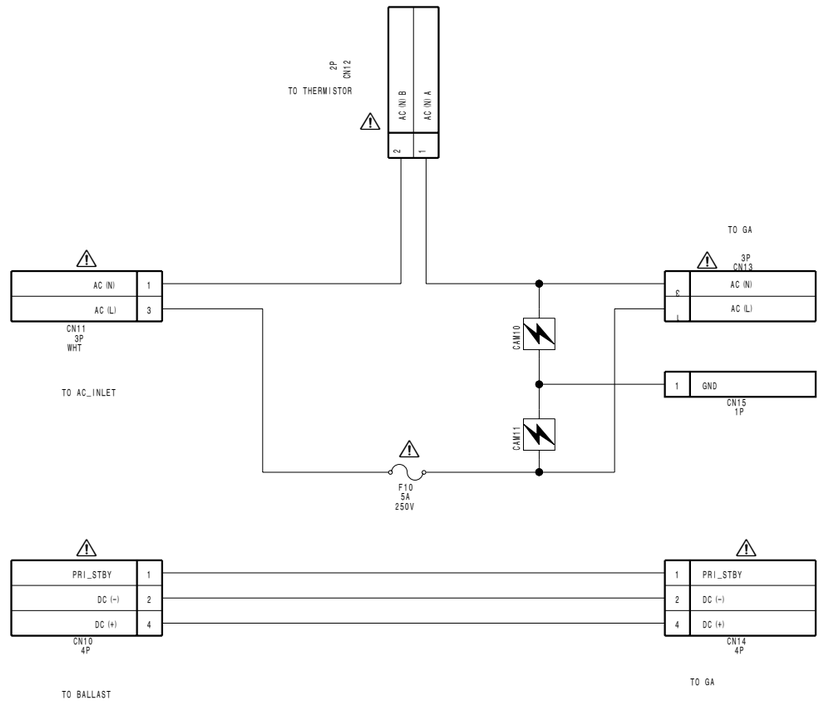


C (14/19, 19/19) PQ20WZ1UJ00H (IC1503, IC2002)



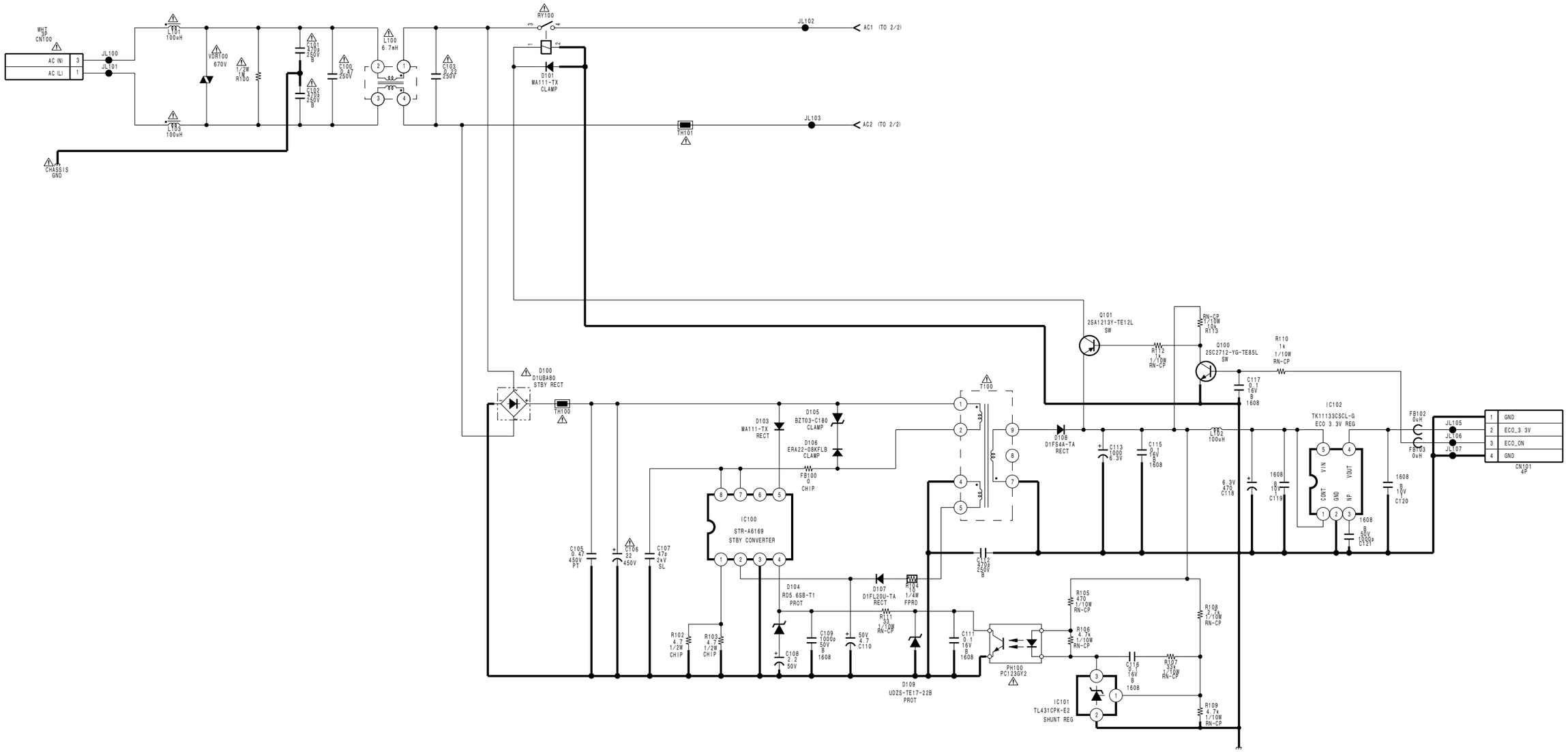
C (17/19) TC7SH00FU-TE85R (IC1809)




2P
CN12
TO THERMISTOR
AC IN B
AC IN A
2
1
TO GA
3P
CN13
AC (N)
AC (L)
AC (N)
1
AC (L)
3
CN11
3P
WHT
TO AC_INLET
CNM10
CNM11
1
GND
CN15
1P
F10
5A
250V
PRI_STBY
DC (-)
DC (+)
1
2
4
CN10
4P
TO BALLAST
PRI_STBY
DC (-)
DC (+)
CN14
4P
TO GA

F

6-26


WHT
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CN100
AC (N)
AC (L)
JL100
JL101
L101
100uH
L103
100uH
VDR100
670V
1/2W
1M
RY100
C101
3300
250V
B
C102
3300
250V
B
C100
0.47
250V
L100
6.7mH
C103
0.22
250V
JL102
AC1 (TO 2/2)
JL103
AC2 (TO 2/2)
TH101
CHASSIS
GND
D101
MA111-TX
CLAMP
D100
D1UBA80
STBY RECT
TH100
D103
MA111-TX
RECT
D105
BZT03-C180
CLAMP
D106
ERA22-08KFLB
CLAMP
FB100
0
CHIP
IC100
STR-A6169
STBY CONVERTER
C105
0.47
450V
PT
C106
22
450V
C107
47p
2kV
SL
R102
4.7
1/2W
CHIP
R103
4.7
1/2W
CHIP
D104
RD5.6SB-T1
PROT
C108
2.2
50V
C109
1000p
50V
B
1608
50V
4.7
C110
D107
D1FL20U-TA
RECT
R111
33
1/10W
RN-CP
R104
1.8
1/4W
FPRD
D109
UDZS-TE17-22B
PROT
C111
0.1
16V
B
1608
T100
C112
4700
250V
B
PH100
PC123Y2
D108
D1FS4A-TA
RECT
C113
1000
6.3V
C115
16V
B
1608
L102
100uH
R105
470
1/10W
RN-CP
R106
4.7k
1/10W
RN-CP
C116
0
16V
B
1608
R107
33
1/10W
RN-CP
R108
0.47
1/10W
RN-CP
IC101
TL431CPK-E2
SHUNT REG
R109
4.7k
1/10W
RN-CP
Q101
2SA1213Y-TE12L
SW
R112
1k
1/10W
RN-CP
RN-CP
1/10W
10k
RY13
Q100
2SC2712-YG-TE85L
SW
R110
1k
1/10W
RN-CP
C117
0.1
16V
B
1608
IC102
TK11133CSCL-G
ECO 3.3V REG
CONT
GND
NP
VIN
VOUT
6.3V
470
C118
1608
B
10V
C119
1608
B
50V
1000p
C121
1608
B
10V
C120
FB102
0uH
FB103
0uH
JL105
JL106
JL107
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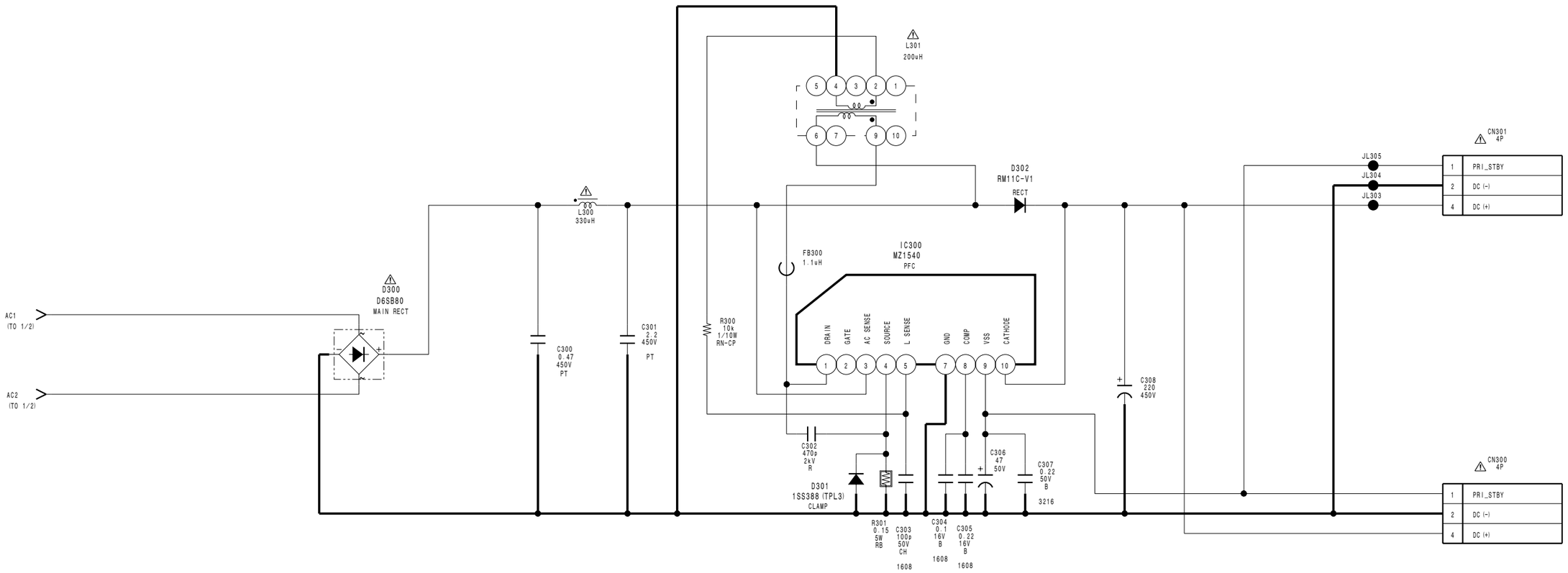
2 ECO_3.3V
3 ECO_ON
4 GND
CN101
4P

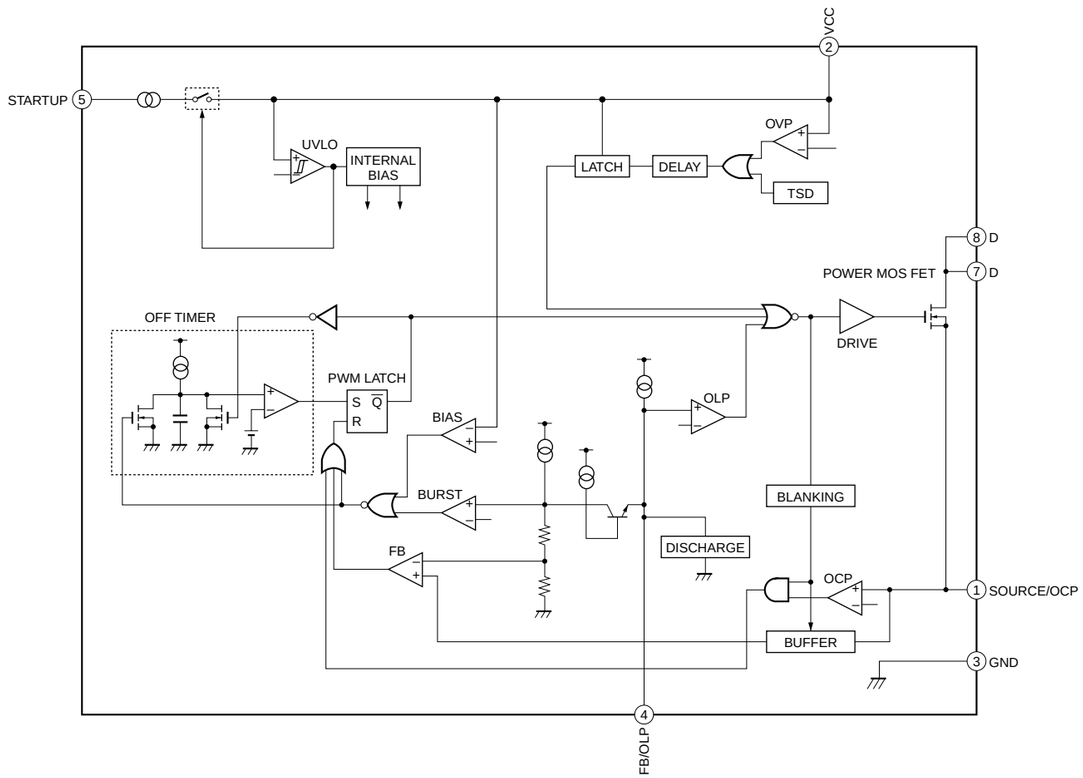
GA (1/2)



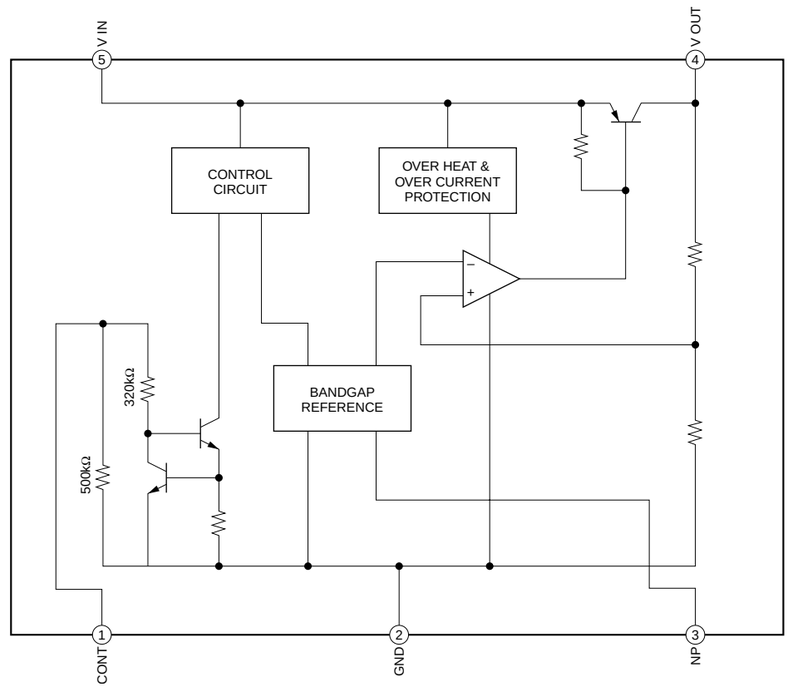
PRIMARY

GA (2/2)

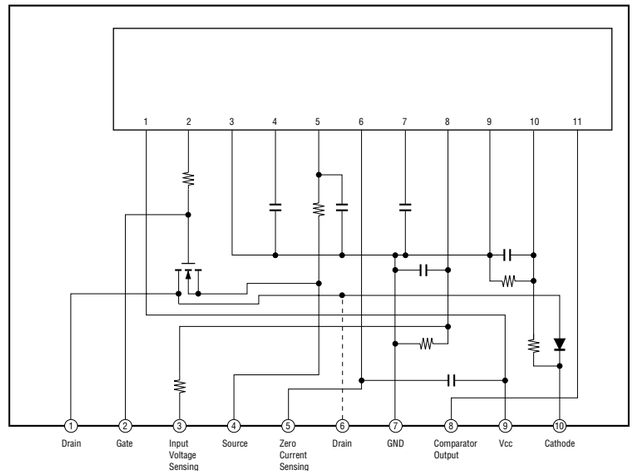
GA (1/2)STR-A6169 (IC100)

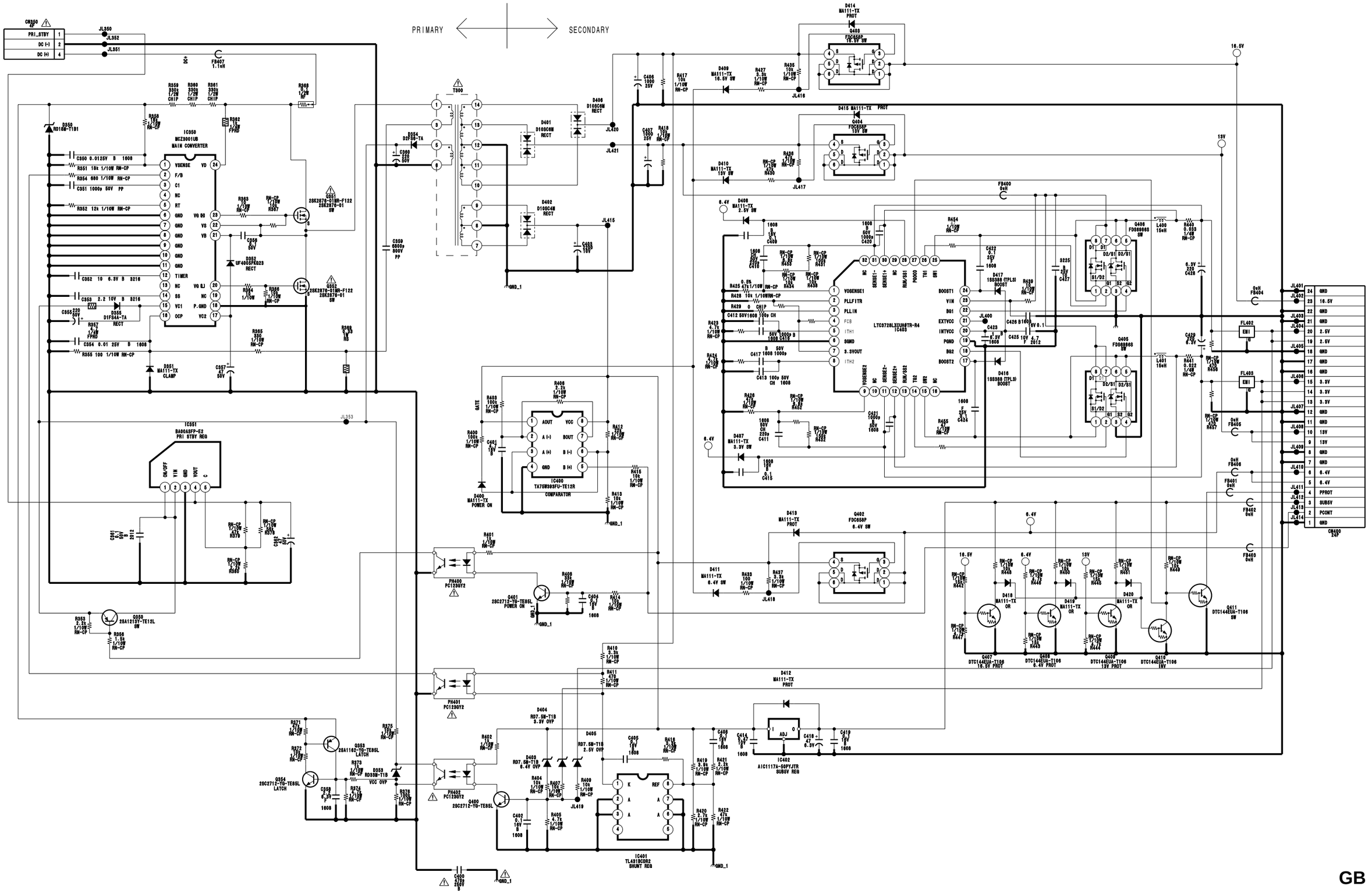


GA (1/2) TK11133CSCL-G (IC102)



GA (2/2) MZ1540 (IC300)

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JL351
FB407 1.1mH
T300
IC350 MCZ3001UB MAIN CONVERTER
VSENSE
F/B
C1
NC
RT
GND
VG DR
VS
VB
TIMER
SS
VC1
OCP
P.GND
VC2
IC351 BA00ASFP-E2 PRI STBY REG
ON/OFF
VIN
GND
VOUT
C
IC400 TA75W393FU-TE12R COMPARATOR
IC401 TL431BCDR2 SHUNT REG
IC402 AIC1117A-50PYJTR SUB5V REG
IC403 LTC3728LXCUH#TR-R4
D414 MA111-TX PROT
Q403 FDC658P 16.5V SW
D409 MA111-TX 16.5V SW
D415 MA111-TX PROT
Q404 FDC658P 13V SW
D410 MA111-TX 13V SW
D406 D10SC6M RECT
D401 D10SC6M RECT
D402 D10SC4M RECT
D408 MA111-TX 6.4V SW
D407 MA111-TX 3.3V SW
D413 MA111-TX PROT
Q402 FDC658P 6.4V SW
D411 MA111-TX 6.4V SW
D412 MA111-TX PROT
D418 MA111-TX OR
D419 MA111-TX OR
D420 MA111-TX OR
D416 1SS388 (TPL3) BOOST
D417 1SS388 (TPL3) BOOST
Q405 FDS6898A SW
Q406 FDS6898A SW
Q407 DTC144EUA-T106 16.5V PROT
Q408 DTC144EUA-T106 6.4V PROT
Q409 DTC144EUA-T106 13V PROT
Q410 DTC144EUA-T106 INV
Q411 DTC144EUA-T106 SW
Q350 2SA1213Y-TE12L SW
Q351 2SK2878-01MR-F122 2SK2878-01 SW
Q352 2SK2878-01MR-F122 2SK2878-01 SW
Q353 2SA1162-YG-TE6SL LATCH
Q354 2SC2712-YG-TE6SL LATCH
Q400 2SC2712-YG-TE6SL
Q401 2SC2712-YG-TE6SL POWER ON
PH400 PC123GY2
PH401 PC123GY2
PH402 PC123GY2
D350 RD16M-T1B1
D351 MA111-TX CLAMP
D352 UF4005FKQ23 RECT
D353 RD33M-T1B VCC OVP
D354 D1FS44-TA RECT
D355 D1FS44-TA RECT
D404 RD7.5M-T1B 3.3V OVP
D405 RD7.5M-T1B 2.5V OVP
D409 RD7.5M-T1B 6.4V OVP
D400 MA111-TX POWER ON
D412 MA111-TX PROT
JL353
JL400
JL401
JL402
JL403
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JL405
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JL407
JL408
JL409
JL410
JL411
JL412
JL413
JL414
JL415
JL416
JL417
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JL419
JL420
JL421
16.5V
13V
6.4V
3.3V
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FB405 0uH
FB406 0uH
FL402 EMI
FL403 EMI
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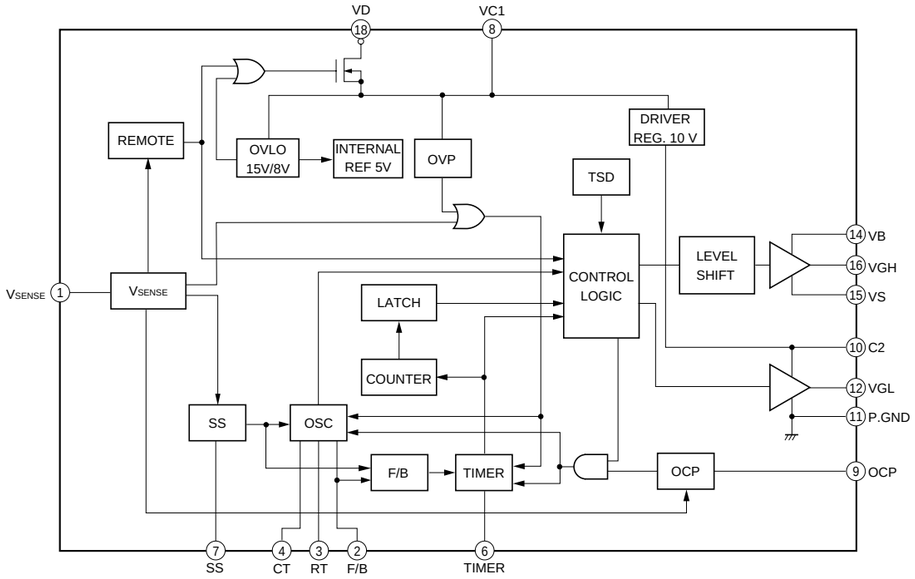
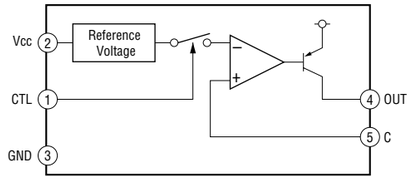
PPROT
SUB5V
PCONT
INV

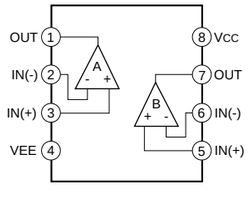
MCZ3001UB (IC350)



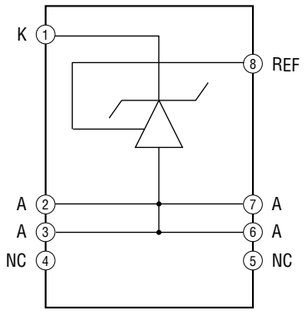
BA00ASFP-E2 (IC351)



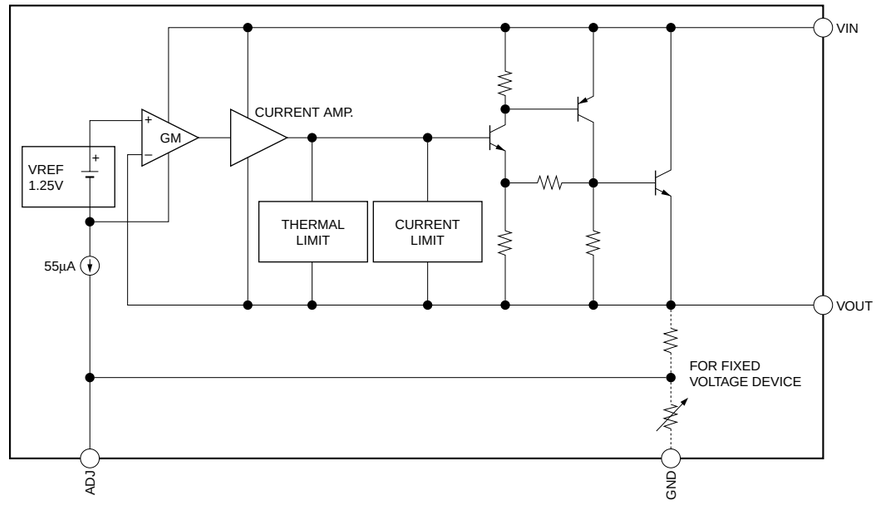
TA75W393FU-TE12R (IC400)

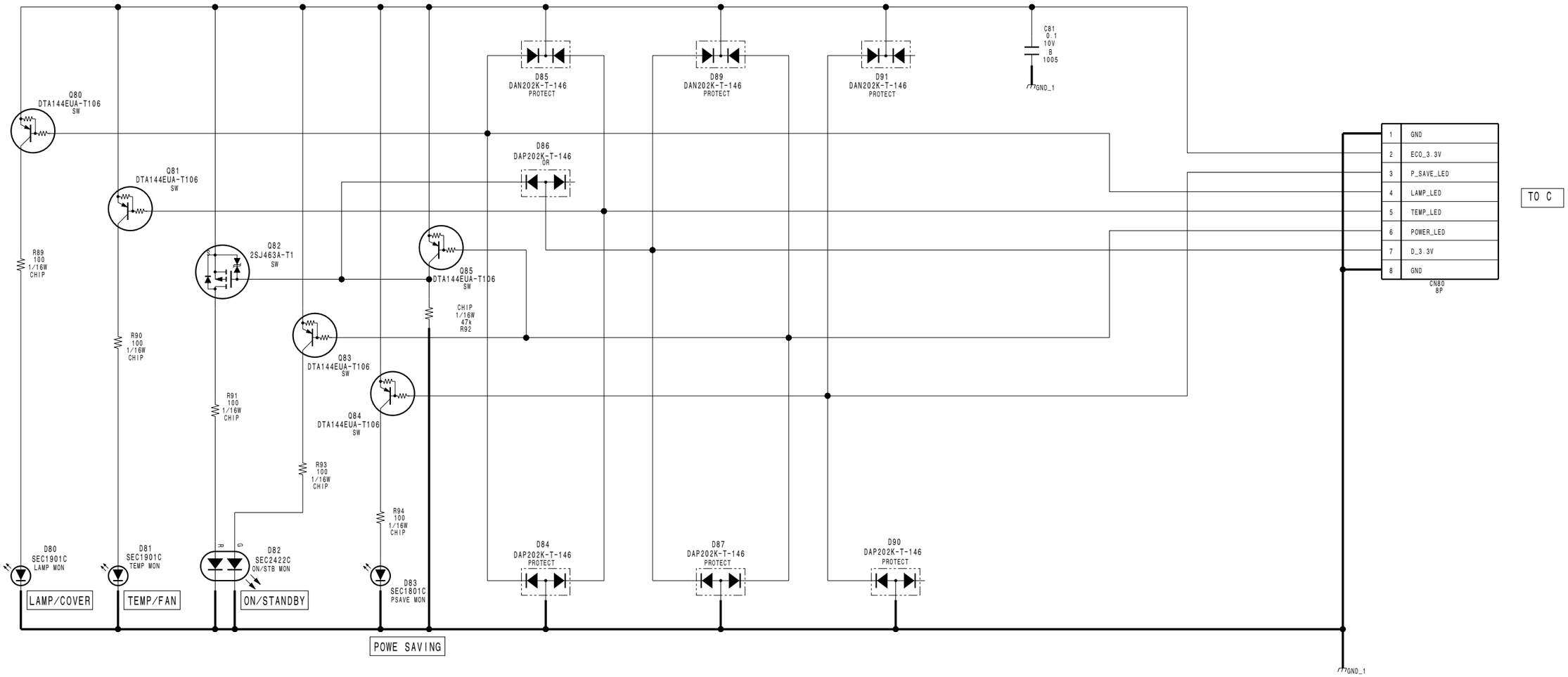


TL431BCDR2 (IC401)



AIC1117A-50PYJTR (IC402)

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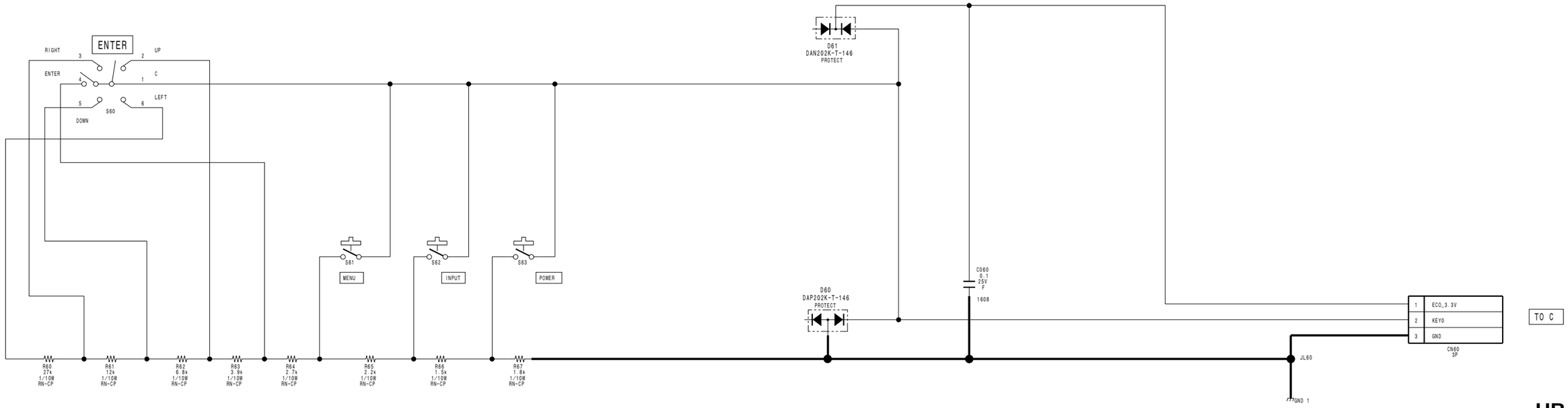
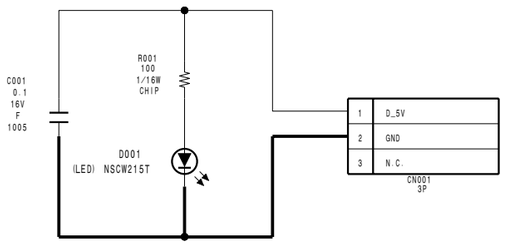
DTA144EUA-T106
SW
Q82
2SJ463A-T1
SW
Q85
DTA144EUA-T106
SW
Q83
DTA144EUA-T106
SW
Q84
DTA144EUA-T106
SW
R89
100
1/16W
CHIP
R90
100
1/16W
CHIP
R91
100
1/16W
CHIP
CHIP
1/16W
47k
R92
R93
100
1/16W
CHIP
R94
100
1/16W
CHIP
D85
DAN202K-T-146
PROTECT
D86
DAP202K-T-146
CR
D89
DAN202K-T-146
PROTECT
D91
DAN202K-T-146
PROTECT
C81
0.1
10V
B
1005
GND_1
D80
SEC1901C
LAMP MON
D81
SEC1901C
TEMP MON
D82
SEC2422C
ON/STB MON
D83
SEC1801C
PSAVE MON
D84
DAP202K-T-146
PROTECT
D87
DAP202K-T-146
PROTECT
D90
DAP202K-T-146
PROTECT
LAMP/COVER
TEMP/FAN
ON/STANDBY
POWE SAVING
1 GND
2 ECO_3.3V
3 P_SAVE_LED
4 LAMP_LED
5 TEMP_LED
6 POWER_LED
7 D_3.3V
8 GND
CN80
8P
TO C
GND_1

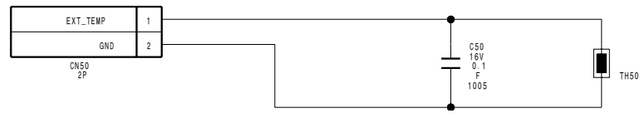
HA


ENTER
RIGHT
UP
ENTER
C
LEFT
DOWN
S60
S61
S62
S63
MENU
INPUT
POWER
D61
DAN202K-T-146
PROTECT
D60
DAP202K-T-146
PROTECT
C060
0.1
25V
F
1608
R60
27k
1/10W
RN-CP
R61
12k
1/10W
RN-CP
R62
6.8k
1/10W
RN-CP
R63
3.9k
1/10W
RN-CP
R64
2.7k
1/10W
RN-CP
R65
2.2k
1/10W
RN-CP
R66
1.5k
1/10W
RN-CP
R67
1.8k
1/10W
RN-CP
JL60
GND 1
1 ECO_3.3V
2 KEY0
3 GND
CN60
3P
TO C

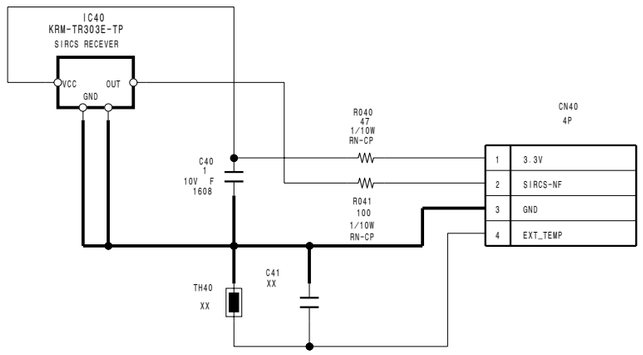
HB


C001
0.1
16V
F
1005
R001
100
1/16W
CHIP
D001
(LED) NSCW215T
1 D_5V
2 GND
3 N.C.
CN001
3P

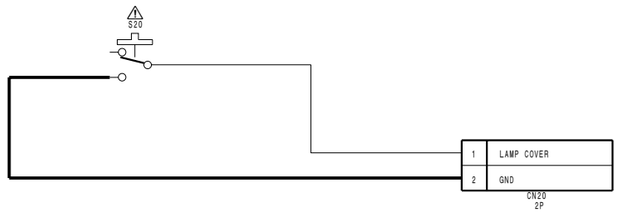
L


EXT_TEMP 1
GND 2
CN50
2P
C50
16V
0.1
F
1005
TH50

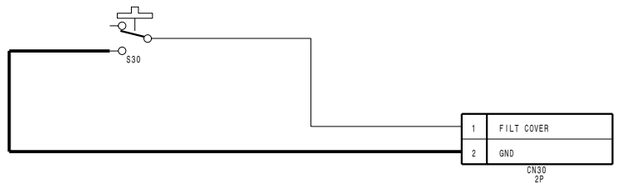
TA


IC40
KRM-TR303E-TP
SIRCS RECEVER
VCC
OUT
GND
C40
1
10V
F
1608
R040
47
1/10W
RN-CP
R041
100
1/10W
RN-CP
C41
XX
TH40
XX
CN40
4P
1 3.3V
2 SIRCS-NF
3 GND
4 EXT_TEMP

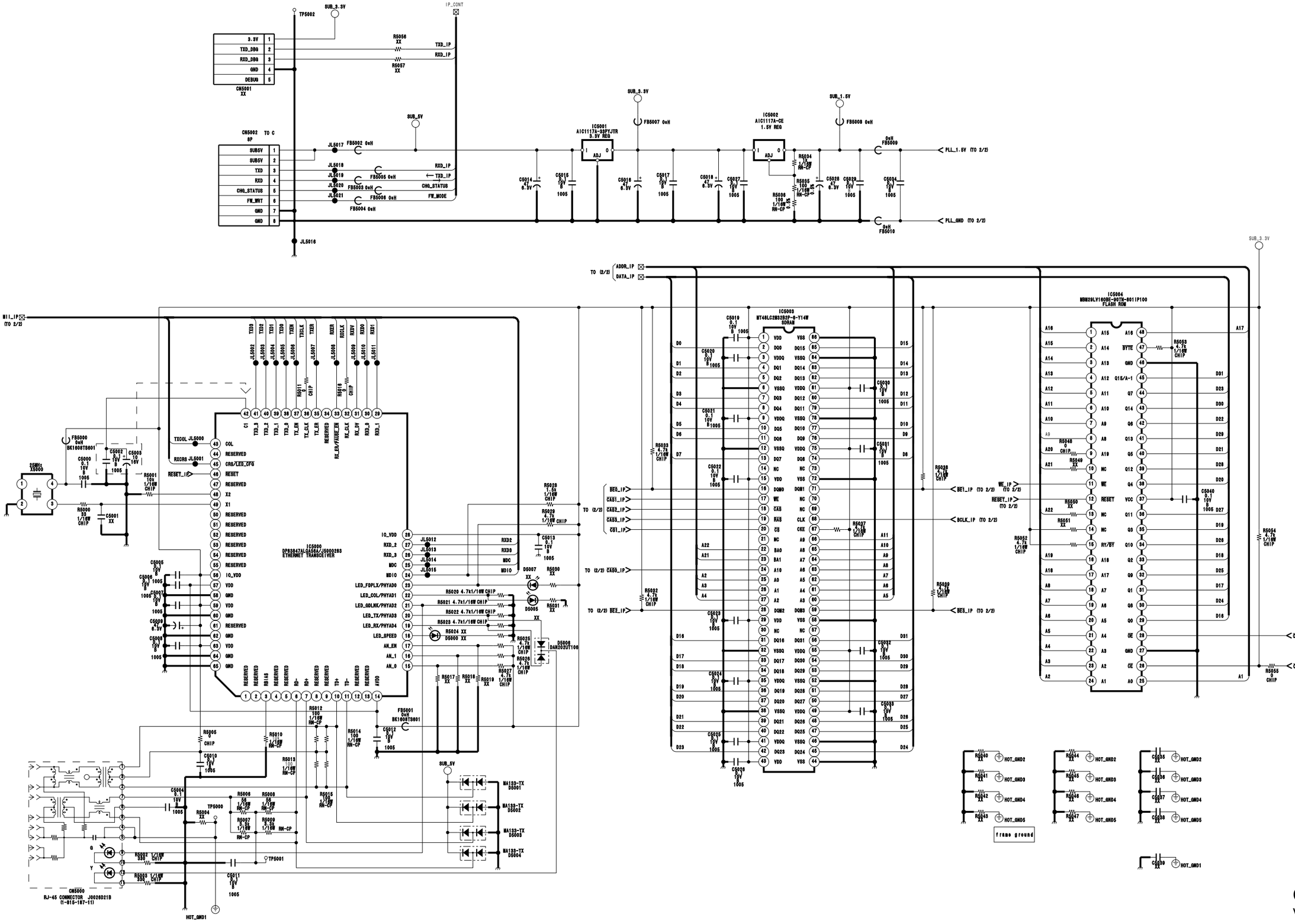
NF


S20
1 LAMP COVER
2 GND
CN20
2P

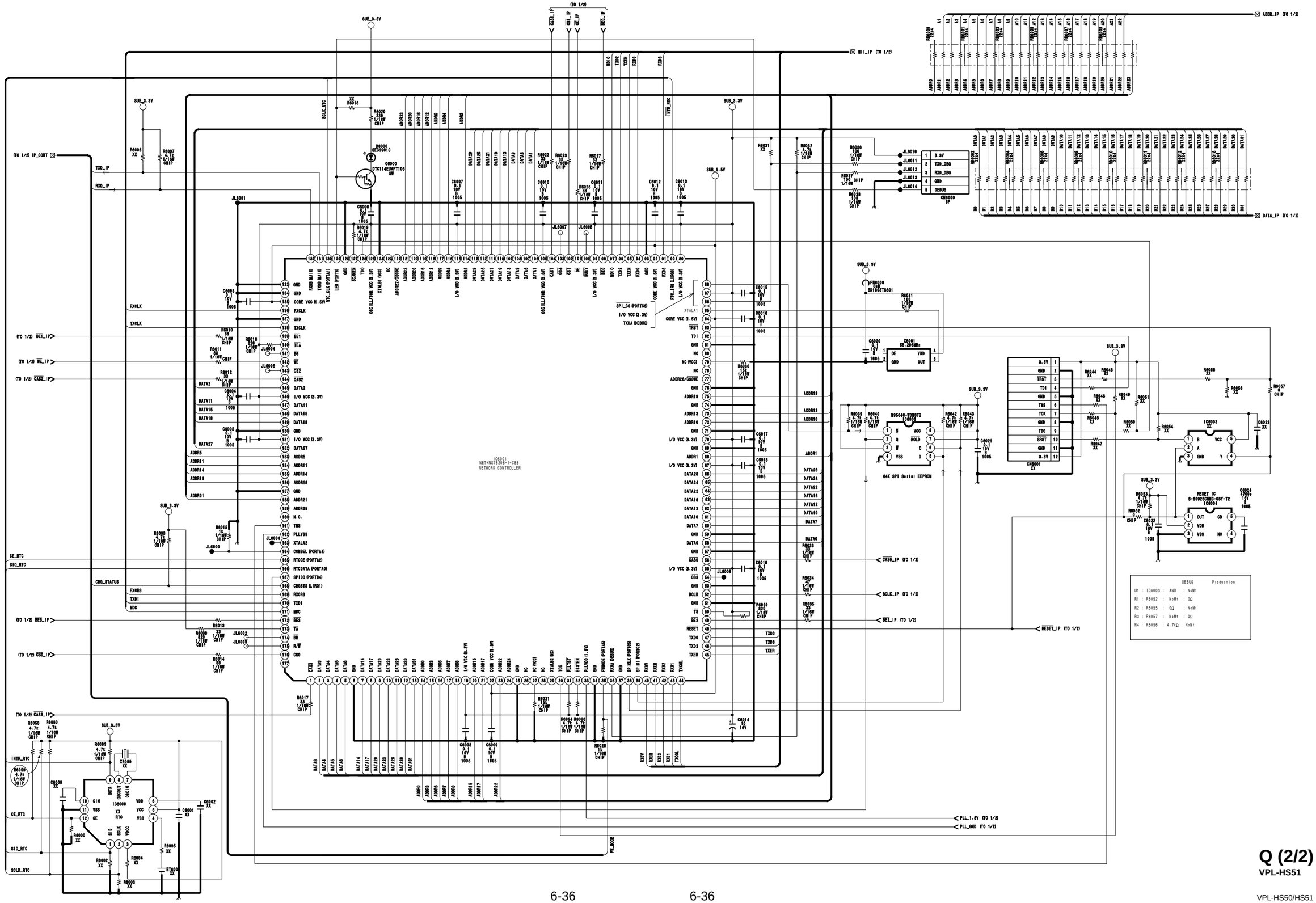
U


S30
1 FILT COVER
2 GND
CN30
2P

V

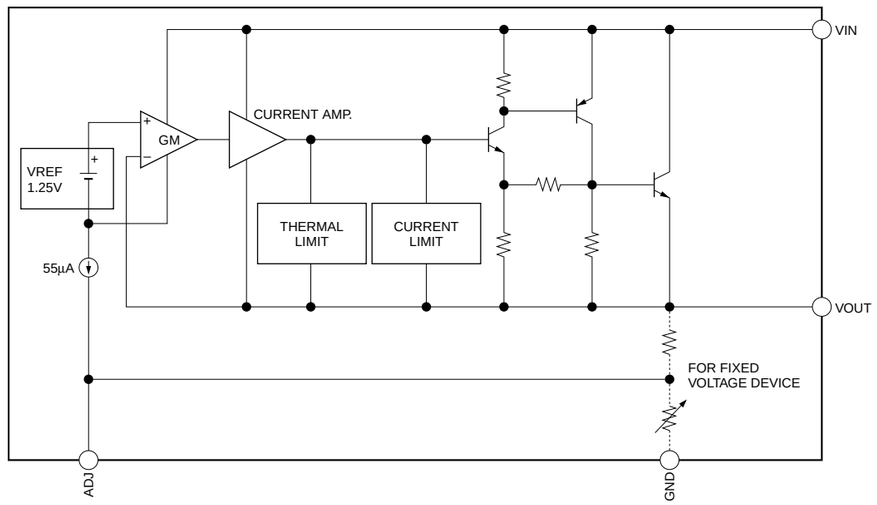

CN5001 XX
CN5002 TO C 8P
SUB5V
SUB5V
TXD
RXD
CHG_STATUS
FW_WRT
GND
GND
IP_CONT
TXD_IP
RXD_IP
CHG_STATUS
FW_MODE
SUB_3.3V
SUB_5V
SUB_1.5V
IC5001 AIC1117A-33PY-TR 3.3V REG
IC5002 AIC1117A-CE 1.5V REG
PLL_1.5V (TO 2/2)
PLL_GND (TO 2/2)
JL5016
IC5000 DP83847AL/AS/AT/J/S000283 ETHERNET TRANSCEIVER
CN5000 RJ-45 CONNECTOR J0026D21B (1-816-187-11)
HOT_GND1
IC5003 MT48LC2M32B2P-6-Y14W SDRAM
IC5004 MBM29LV160BE-90TN-8011P100 FLASH ROM
ADDR_IP
DATA_IP
BE0_IP
BE1_IP
BE2_IP
BE3_IP
CAS0_IP
CAS1_IP
CAS2_IP
CAS3_IP
CS1_IP
BCLK_IP (TO 2/2)
OE_IP (TO 2/2)
CS0_IP (TO 2/2)
WE_IP (TO 2/2)
RESET_IP (TO 2/2)
frame ground

Q (1/2)
VPL-HS51

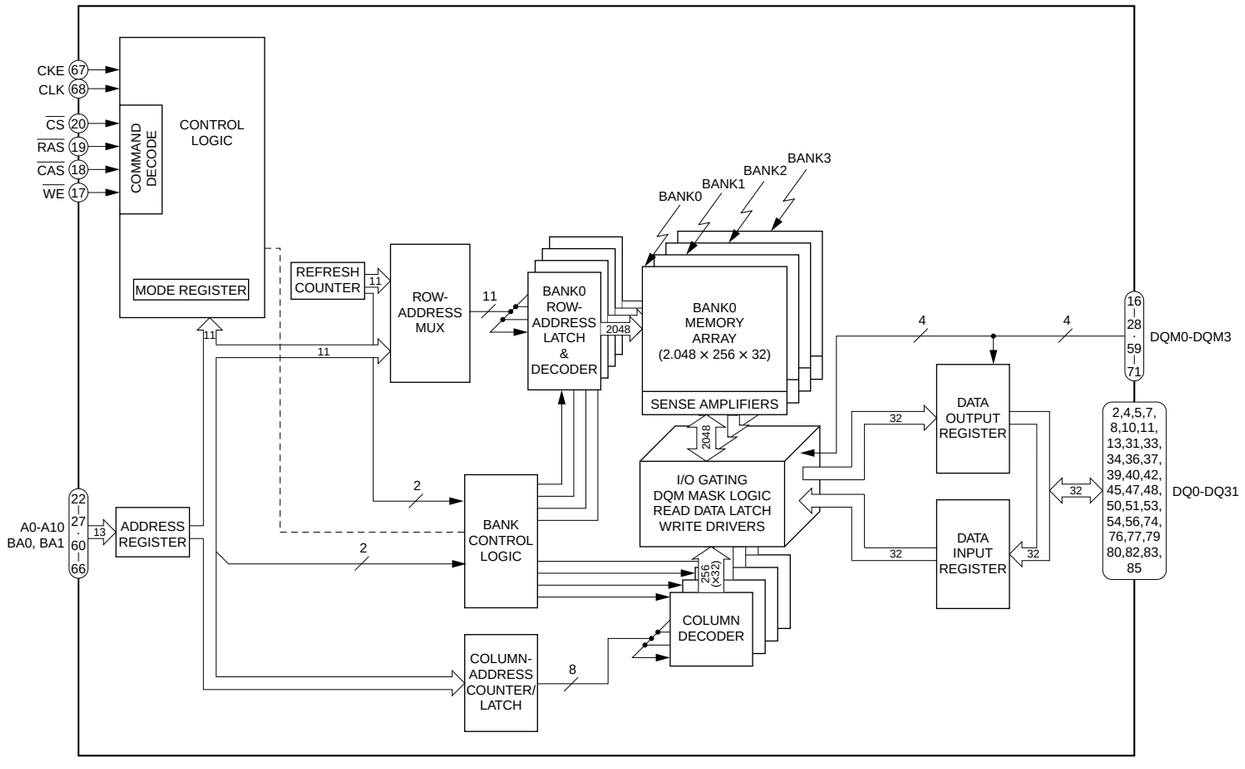

(TO 1/2)
SUB_3.3V
SUB_1.5V
CASS_IP
CST_IP
OE_IP
BEI_IP
MDIO
TXD2
TXEN
RXD0
RXD3
ADDR_IP (TO 1/2)
MII_IP (TO 1/2)
DATA_IP (TO 1/2)
(TO 1/2) IP_CONT
TXD_IP
RXD_IP
SCLK_RTC
INTR_RTC
CE_RTC
SIO_RTC
SCLK_RTC
CNG_STATUS
RXCLK
TXCLK
(TO 1/2) BEI_IP
(TO 1/2) WE_IP
(TO 1/2) CASS_IP
(TO 1/2) BES_IP
(TO 1/2) CSS_IP
JL6001
JL6007
JL6008
JL6010
JL6011
JL6012
JL6013
JL6014
3.3V
TXD_DBG
RXD_DBG
GND
DEBUG
CN6000
SP
IC6001
NET+NS7520B-1-CSS
NETWORK CONTROLLER
X6001
55.296MHz
IC6003
IC6004
RESET IC
S-80928CNMC-B8Y-T2
64K SPI Serial EEPROM
M95640-WDW6TG
IC6002
CN6001
XX
RESET_IP (TO 1/2)
CASS_IP (TO 1/2)
BCLK_IP (TO 1/2)
BES_IP (TO 1/2)
PLL_1.5V (TO 1/2)
PLL_GND (TO 1/2)
PLL_MODE
DEBUG Production
U1 : IC6003 : AND : No Mt
R1 : R6052 : No Mt : 0Ω
R2 : R6055 : 0Ω : No Mt
R3 : R6057 : No Mt : 0Ω
R4 : R6056 : 4.7kΩ : No Mt

Q (2/2)
VPL-HS51

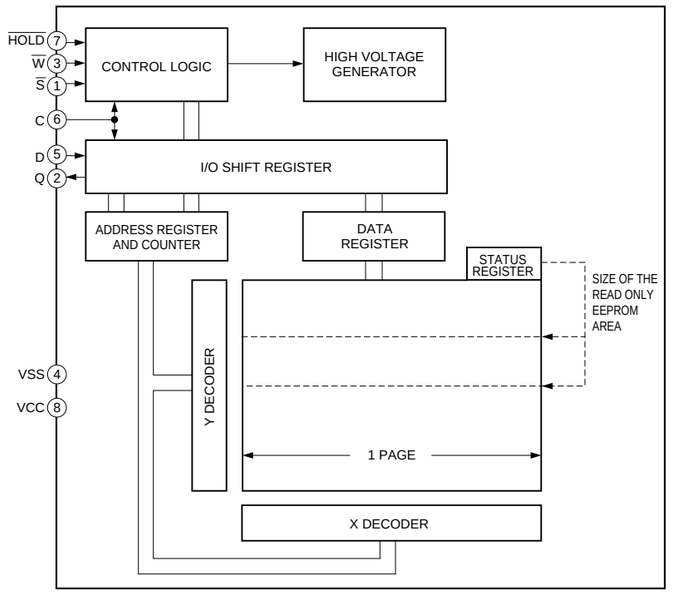
Q (1/2) AIC1117A-33PYJTR (IC5001)
Q (1/2) AIC1117A-PEJTR (IC5002)



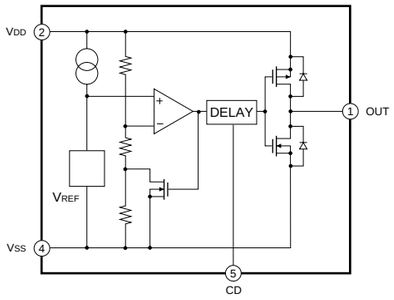
Q (1/2) MT48LC2M32B2P-6-Y14W (IC5003)



Q (2/2) M95640-WDW6TG (IC6002)



Q (2/2) S-80928CNMC-G8YT2G (IC6004)



Frame Wiring

GA

CN300

PRI_STBY	1	1
DC (–)	2	2
DC (+)	4	4

CN350

1	1	PRI_STBY	
2	2	DC (–)	
4	4	DC (+)	

CN400 24P — 24 | 1 — GB

FFC

CN1900 24P — 1 | 24

CN100 (AC (L), AC (N)) — 1 | 3

CN301 (PRI_STBY, DC (–), DC (+)) — 1 | 2 | 4

CN101

GND	1	1
ECO_3.3V	2	2
ECO_ON	3	3
GND	4	4

CN1901

1	1	GND
2	2	ECO_3.3V
3	3	ECO_ON
4	4	GND

CN202 8P

CN1800 12P

CN1802 4P

CN1803 4P

CN1804 4P

CN1805 4P

CN1906 4P

CN1500 32P — LCD PANEL (RED)

CN1600 32P — LCD PANEL (GREEN)

CN1700 32P — LCD PANEL (BLUE)

CN1907

1	1	FAN1
2	2	PROT
3	3	GND
4	4	N.C.

FOR SIROCCO (LARGE)

CN1911

1	1	FAN5
2	2	PROT
3	3	GND

FOR SIROCCO (SMALL)

CN1909

1	1	FAN3
2	2	PROT
3	3	GND

FOR POWER

CN1910

1	1	FAN4
2	2	PROT
3	3	GND

FOR LAMP

CN2000

1	1	HOLE 10
2	2	HOLE 8
3	3	HOLE 11
4	4	HOLE 9
5	5	BRAKE 6
6	6	BRAKE 7
7	7	BRAKE 4
8	8	BRAKE 5

M — IRIS UNIT

CN1092

GND	1	1
ECO_3.3V	2	2
P_SAVE_LED	3	3
LAMP_LED	4	4
TEMP_LED	5	5
POWER_LED	6	6
D_3.3V	7	7
GND	8	8

CN80

1	GND
2	ECO_3.3V
3	P_SAVE_LED
4	LAMP_LED
5	TEMP_LED
6	POWER_LED
7	D_3.3V
8	GND

HA

CN1093

ECO_3.3V	1	1
KEY0	2	2
GND	3	3

CN60

1	1	ECO_3.3V
2	2	KEY0
3	3	GND

HB

CN1902

EXT_TEMP	1	1
GND	2	2

CN50

1	1	EXT_TEMP
2	2	GND

TA

CN1905

D_5V	1	1
ILLUM	2	2
N.C.	3	3

CN001

1	1	D_5V
2	2	GND
3	3	N.C.

L

CN203

LAMP COVER	1	1
GND	2	2

CN20

1	1	LAMP COVER
2	2	GND

U

CN201

FILT COVER	1	1
GND	2	2

CN30

1	1	FILT COVER
2	2	GND

V

CN13 (AC (L), AC (N)) — 1 | 3

CN14 (PRI_STBY, DC (–), DC (+)) — 1 | 2 | 4

CN12

AC (IN) B	1	1
AC (IN) A	2	2

THERMISITOR

F

CN11 (AC (N), AC (L)) — 1 | 3

CN10 (PRI_STBY, DC (–), DC (+)) — 1 | 2 | 4

LAMP POWER SUPPLY

LAMP UNIT

AC IN

CHASSIS GND

For VPL-HS51

CN5002

SUB5V	1	1
SUB5V	2	2
TXD	3	3
RXD	4	4
CHG_STATUS	5	5
FW_WRT	6	6
GND	7	7
GND	8	8

Q

CN1806

1	1	SUB5V
2	2	SUB5V
3	3	TXD
4	4	RXD
5	5	CHG_STATUS
6	6	FW_WRT
7	7	GND
8	8	GND

CN40

3.3V	1	1
SIRCS-NF	2	2
GND	3	3
EXT_TEMP	4	4

NF

CN1903

1	1	ECO_3.3V
2	2	SIRCS-NF
3	3	GND
4	4	N.C.

C

Section 7
Board Layouts

Index

Board Name	Page
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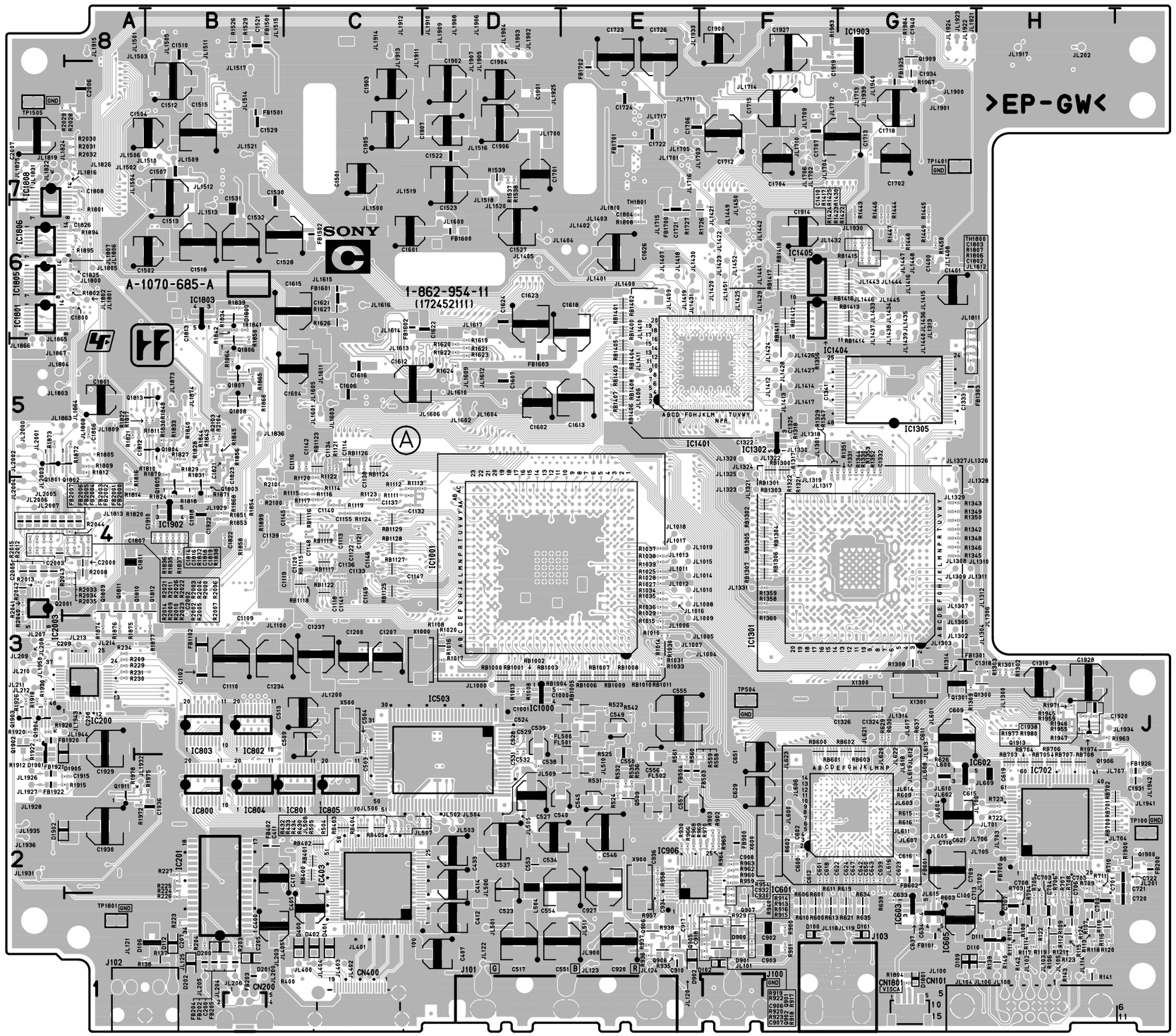
GB	7-5
HA	7-6
HB	7-6
L	7-6
NF	7-6
Q (VPL-HS51 only)	7-7
TA	7-7
U	7-7
V	7-7

7-1

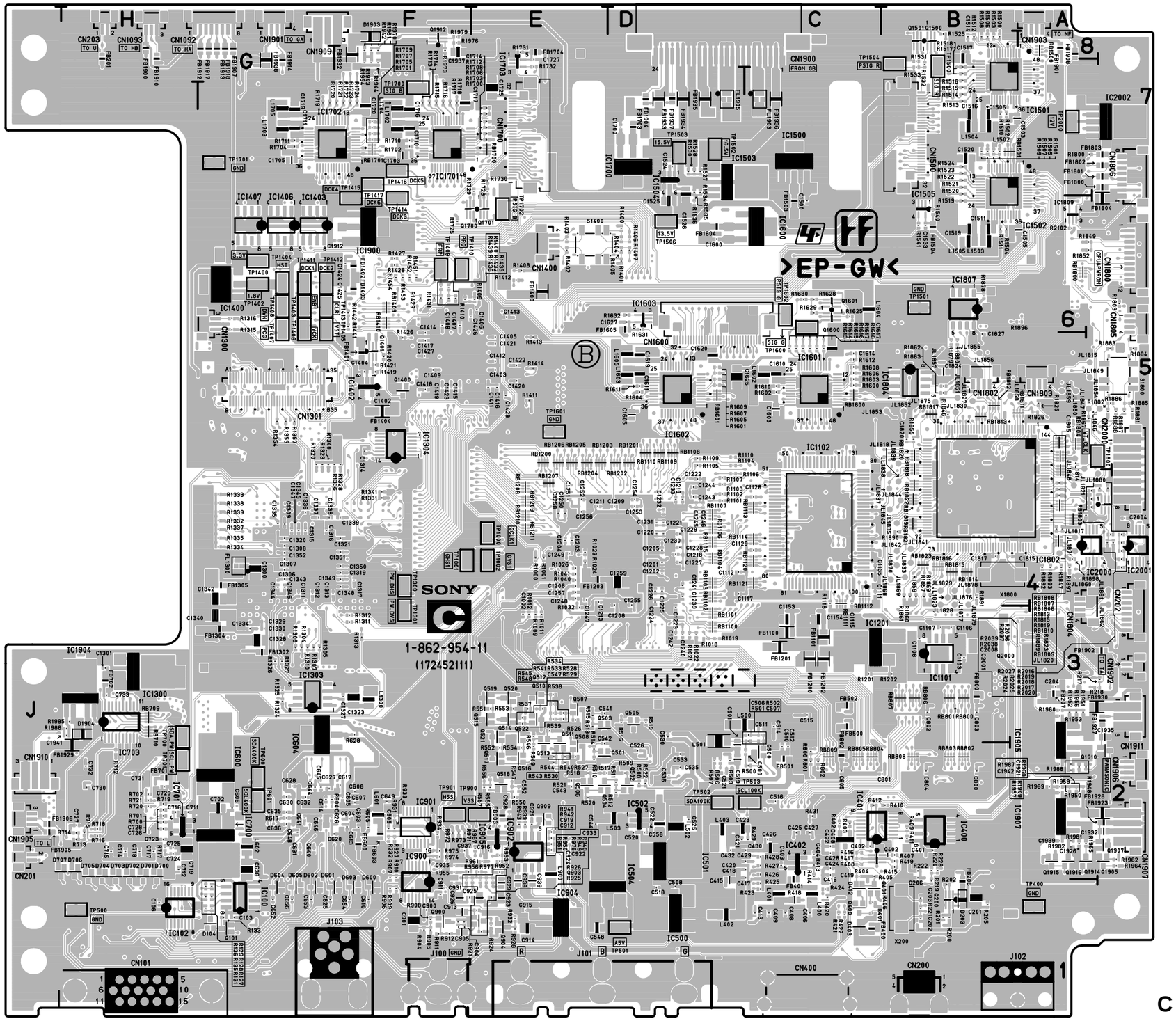
C BOARD (1-862-954-11)
---

*:B SIDE

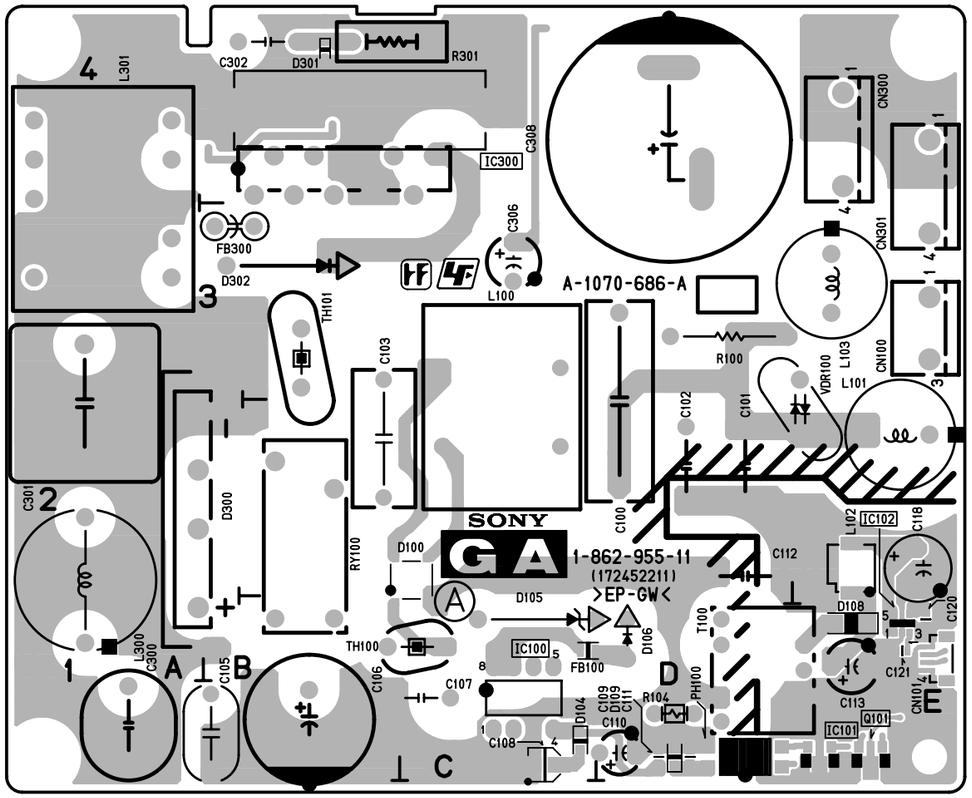
D100	F-1	IC1502	*B-7	Q1811	A-4
D101	G-1	IC1503	*D-7	Q1812	B-4
D102	F-1	IC1504	*D-7	Q1813	B-5
D104	*G-1	IC1505	*B-6	Q1900	J-2
D106	B-1	IC1600	*C-6	Q1902	A-3
D109	G-1	IC1601	*C-5	Q1903	A-3
D110	G-1	IC1602	*D-5	Q1904	A-3
D111	G-1	IC1603	*D-6	Q1905	*A-2
D112	B-1	IC1700	*D-7	Q1906	H-3
D201	B-1	IC1701	*F-7	Q1907	*A-2
D202	B-1	IC1702	*G-7	Q1909	G-8
D203	*B-1	IC1703	*E-7	Q1910	*A-2
D401	C-1	IC1801	A-6	Q1911	A-2
D402	C-1	IC1802	*B-4	Q1912	*F-8
D403	*C-1	IC1803	B-6	Q1913	H-3
D408	*C-2	IC1804	*B-5	Q1914	*A-2
D412	*C-1	IC1805	A-6	Q1915	*A-2
D700	*H-2	IC1806	A-6	Q1916	*A-2
D701	*H-2	IC1807	*B-6	Q2000	*B-3
D702	*H-2	IC1808	A-6	Q2001	A-4
D703	*H-2	IC1809	*A-6		
D704	*H-2	IC1900	*F-6	TP504	F-3
D705	*H-2	IC1902	B-4	TP1400	*G-6
D706	*H-2	IC1903	G-8	TP1401	G-7
D707	*H-2	IC1904	*H-3	TP1500	*B-7
D900	F-1	IC1905	*A-3	TP1501	*B-6
D901	F-1	IC1907	*A-2	TP1505	A-7
D902	E-1	IC2000	*A-4	TP1600	*C-6
D1800	B-6	IC2001	*A-4	TP1601	*E-5
D1801	G-1	IC2002	*A-7	TP1700	*F-7
D1901	A-2	IC2003	A-4	TP1701	*G-7
D1902	A-2			TP1800	*A-5
D1903	*F-8	Q101	*G-1	TP2000	*A-7
D1904	*H-3	Q200	*B-1		
D1905	A-2	Q400	*C-1		
		Q401	*C-1		
IC100	*G-1	Q402	*C-2		
IC102	*H-1	Q500	*C-3		
IC200	A-3	Q501	*E-2		
IC201	B-2	Q502	*D-2		
IC400	*B-2	Q503	*E-3		
IC401	*C-2	Q504	*E-2		
IC402	*C-2	Q505	*D-3		
IC403	C-2	Q506	*E-2		
IC500	*D-1	Q507	*E-3		
IC501	*D-2	Q508	*E-2		
IC502	*D-2	Q509	E-2		
IC503	D-2	Q510	*E-3		
IC504	*D-1	Q511	*E-2		
IC600	*G-2	Q512	*E-3		
IC601	F-2	Q513	*E-2		
IC602	G-2	Q514	*E-3		
IC603	G-1	Q515	*E-3		
IC604	*G-3	Q516	*E-2		
IC605	G-1	Q517	*E-2		
IC700	*G-2	Q518	*E-2		
IC701	*H-2	Q519	*E-3		
IC702	H-2	Q520	*E-3		
IC703	*H-3	Q521	*E-3		
IC800	B-2	Q522	*E-3		
IC801	C-2	Q900	*F-1		
IC802	B-3	Q901	F-1		
IC803	B-3	Q902	F-1		
IC804	B-2	Q903	*E-2		
IC805	C-2	Q904	*E-1		
IC900	*F-1	Q905	E-1		
IC901	*F-2	Q906	E-1		
IC902	*E-2	Q907	F-1		
IC904	*E-1	Q908	E-1		
IC905	*E-2	Q909	*E-2		
IC906	E-2	Q1300	H-3		
IC1000	D-3	Q1301	G-3		
IC1001	D-4	Q1400	*F-5		
IC1101	*B-3	Q1401	*F-5		
IC1102	*C-4	Q1500	*B-8		
IC1201	*C-3	Q1501	*B-8		
IC1300	*H-3	Q1600	*C-6		
IC1301	G-4	Q1601	*C-6		
IC1302	F-5	Q1700	*F-6		
IC1303	*G-3	Q1701	*E-6		
IC1304	*F-5	Q1801	A-5		
IC1305	G-5	Q1802	A-5		
IC1400	*G-6	Q1803	B-4		
IC1401	F-5	Q1804	B-5		
IC1402	*F-5	Q1805	B-4		
IC1403	*G-6	Q1806	B-5		
IC1404	F-6	Q1807	B-5		
IC1405	F-6	Q1808	B-5		
IC1500	*C-7	Q1809	A-4		
IC1501	*B-7	Q1810	A-4		



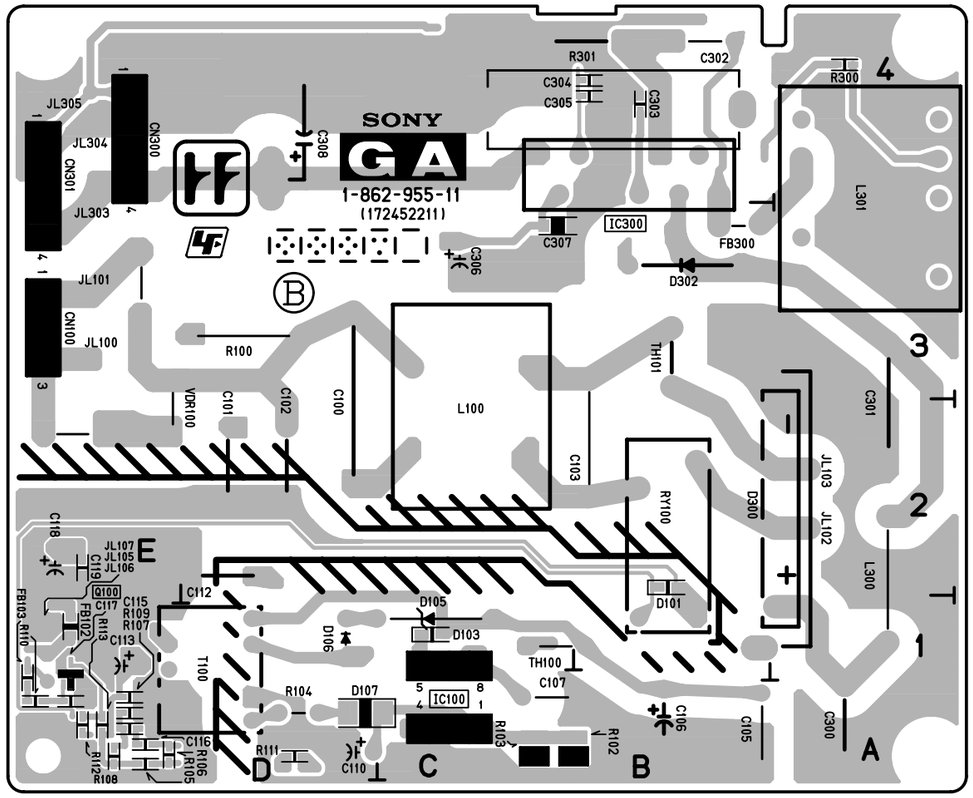
C -A SIDE-
SUFFIX: -11



C -B SIDE-
SUFFIX: -11



GA -A SIDE-
SUFFIX: -11



GA -B SIDE-
SUFFIX: -11

```
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GA BOARD (1-862-955-11)
-----------------------

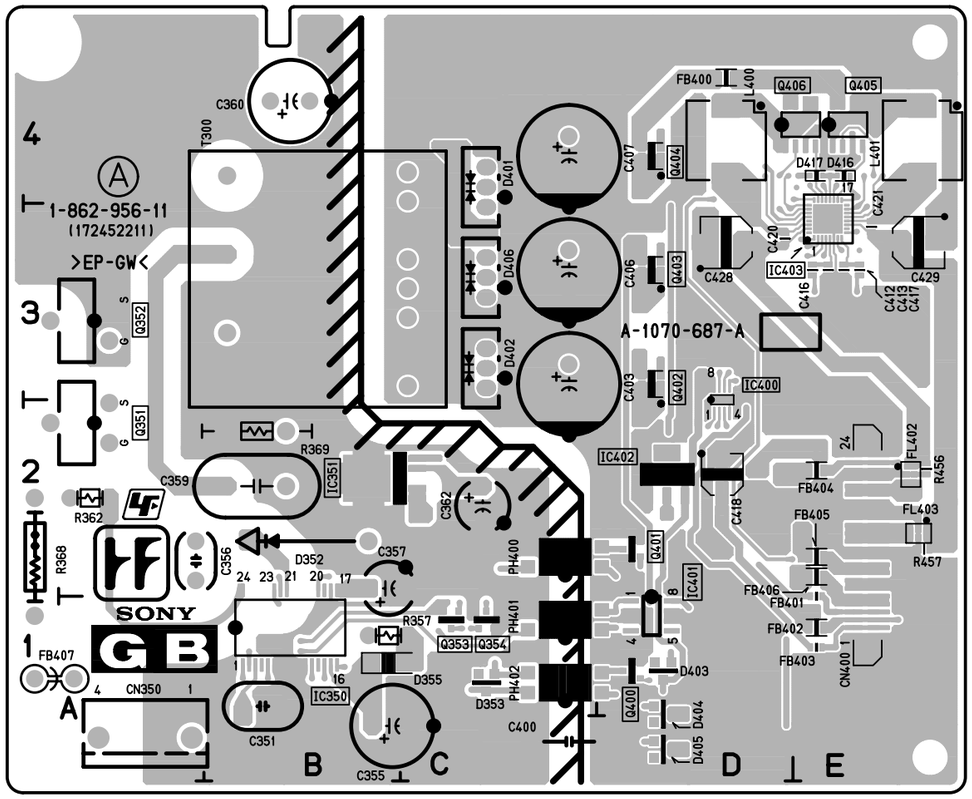
*:B SIDE

D100    C-2
D101   *B-2
D103   *C-1
D104    D-1
D105    C-1
D106    D-1
D107   *D-1
D108    E-1
D109    D-1
D300    A-2
D301    B-4
D302    B-3

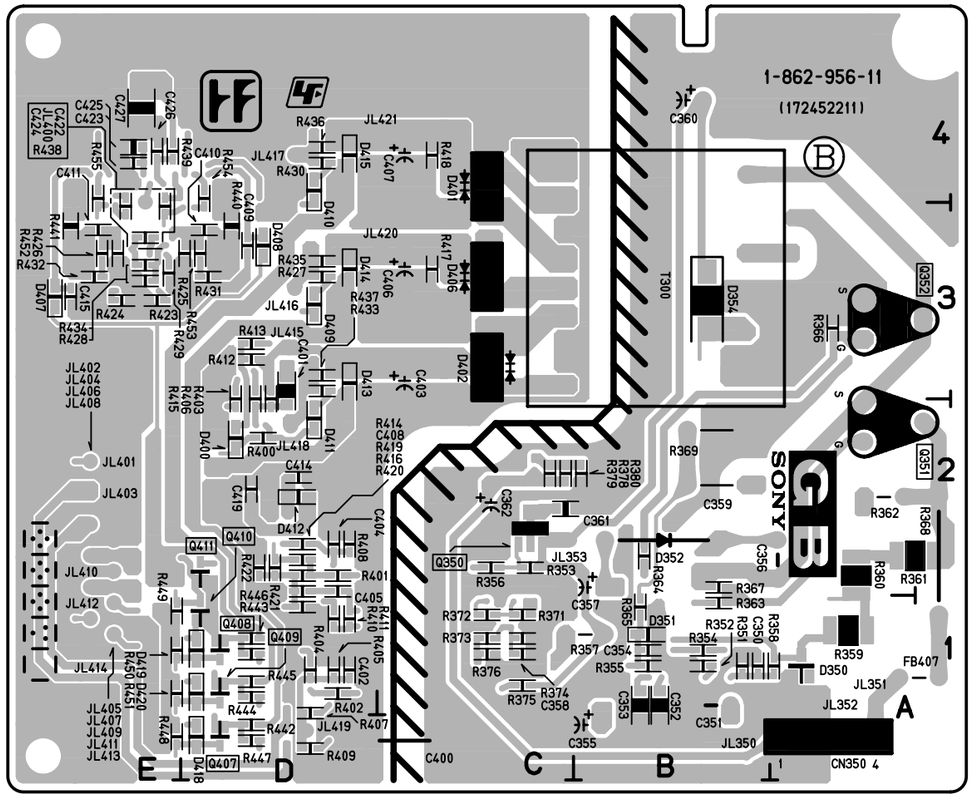
IC100   C-1
IC101   E-1
IC102   E-1
IC300   B-4

PH100   D-1

Q100   *E-1
Q101    E-1
```



GB -A SIDE-
SUFFIX: -11

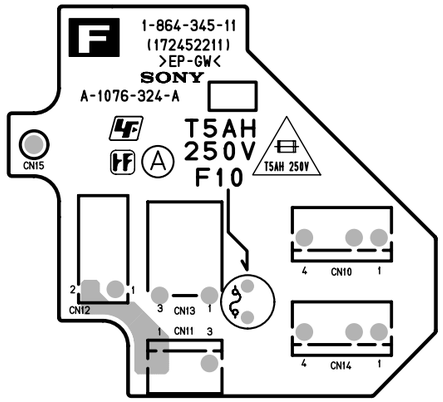


GB -B SIDE-
SUFFIX: -11

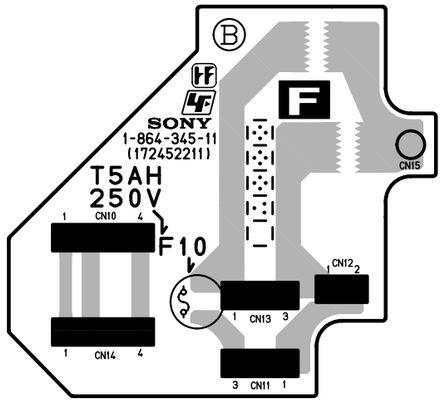
GB BOARD (1-862-956-11)
---

*:B SIDE

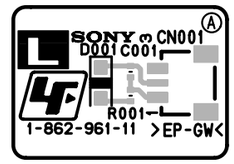
D350	*A-1	D413	*D-3	Q350	*C-2
D351	*B-1	D414	*D-3	Q351	A-2
D352	B-2	D415	*D-4	Q352	A-3
D353	C-1	D416	E-4	Q353	C-1
D354	*B-3	D417	E-4	Q354	C-1
D355	B-1	D418	*D-1	Q400	D-1
D400	*D-2	D419	*D-1	Q401	D-2
D401	C-4	D420	*D-1	Q402	D-3
D402	C-3			Q403	D-3
D403	D-1	IC350	B-1	Q404	D-4
D404	D-1	IC351	B-2	Q405	E-4
D405	D-1	IC400	D-3	Q406	E-4
D406	C-3	IC401	D-1	Q407	*D-1
D407	*E-3	IC402	D-2	Q408	*D-1
D408	*D-3	IC403	E-3	Q409	*D-1
D409	*D-3			Q410	*D-1
D410	*D-4	PH400	C-2	Q411	*D-2
D411	*D-2	PH401	C-1		
D412	*D-2	PH402	C-1		



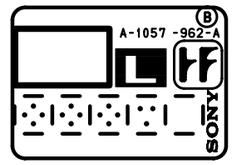
F -A SIDE-
SUFFIX: -11



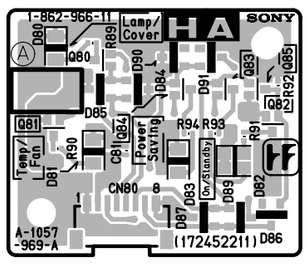
F -B SIDE-
SUFFIX: -11



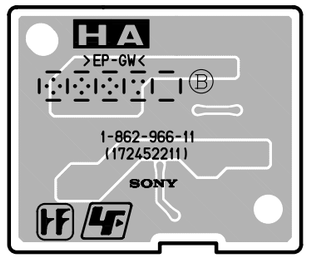
L -A SIDE-
SUFFIX: -11



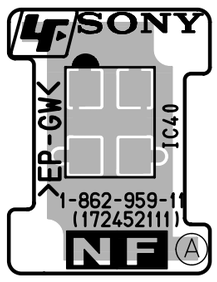
L -B SIDE-
SUFFIX: -11



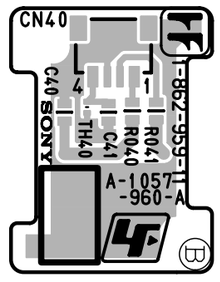
HA -A SIDE-
SUFFIX: -11



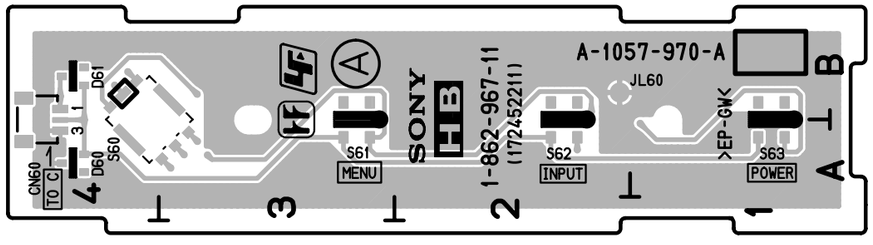
HA -B SIDE-
SUFFIX: -11



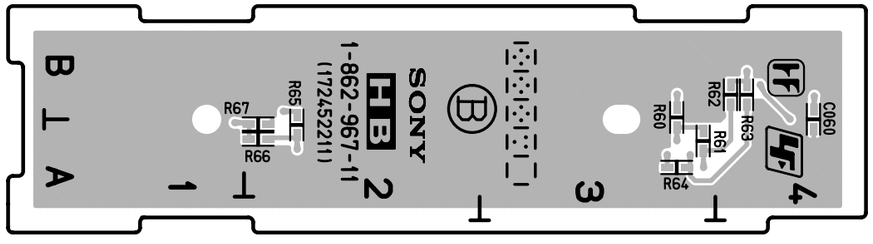
NF -A SIDE-
SUFFIX: -11



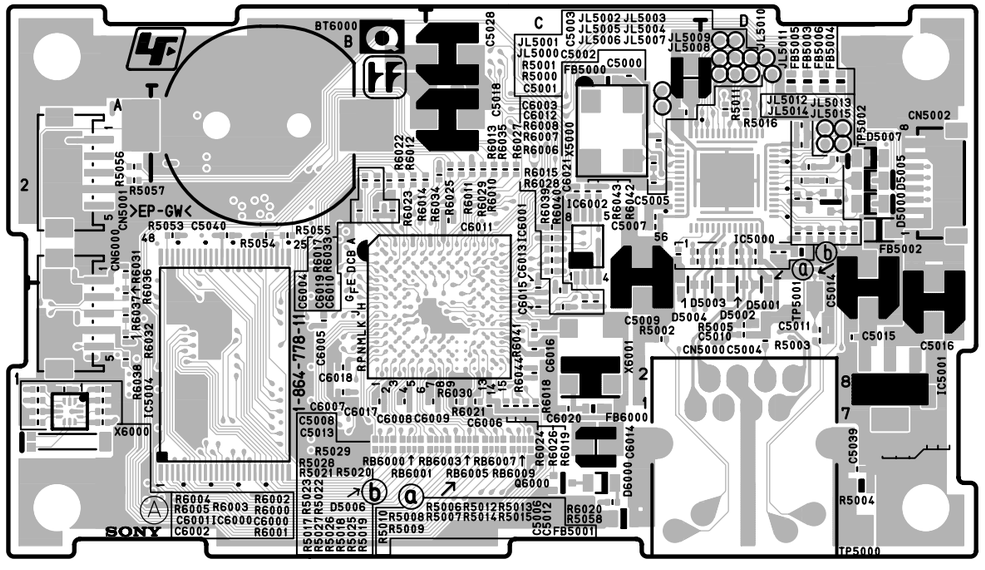
NF -B SIDE-
SUFFIX: -11



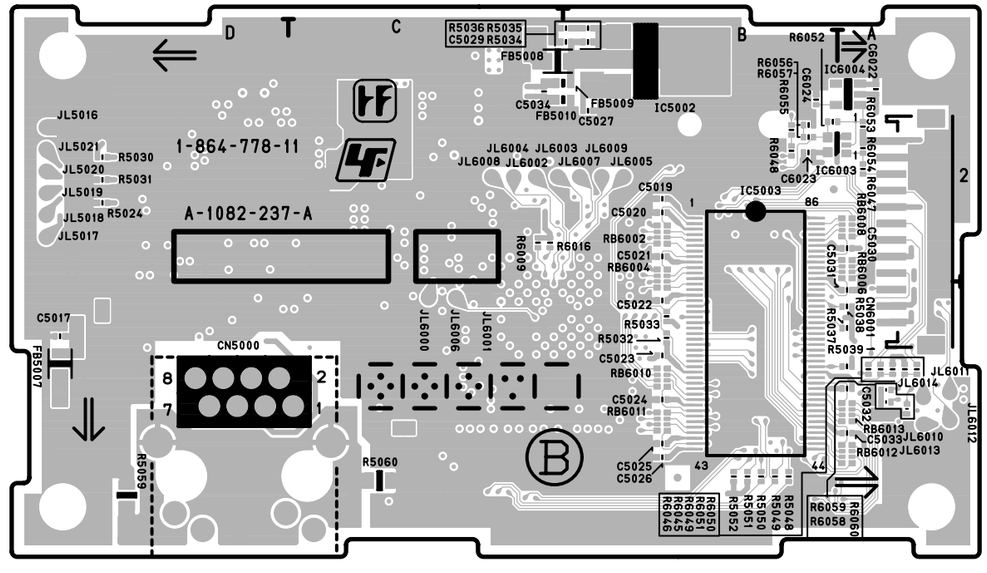
HB -A SIDE-
SUFFIX: -11



HB -B SIDE-
SUFFIX: -11



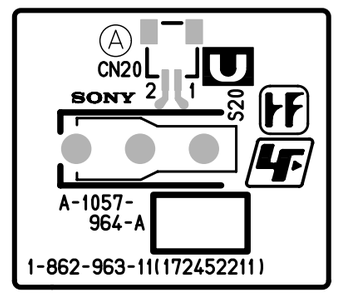
Q -A SIDE-
SUFFIX: -11
VPL-HS51



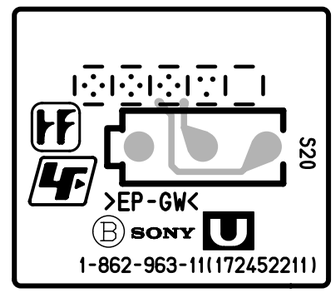
Q -B SIDE-
SUFFIX: -11
VPL-HS51

Q BOARD (1-864-778-11)
---
*:B SIDE

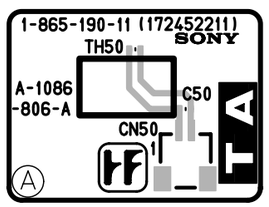
D5001	D-1	IC5004	B-1
D5002	D-1	IC6001	C-1
D5003	D-1	IC6002	C-2
D5004	C-1	IC6004	*A-2
D5006	D-2		
D6000	C-1	Q6000	C-1
IC5000	D-2	TP5000	D-1
IC5001	D-1	TP5001	D-1
IC5002	*B-2	TP5002	D-2
IC5003	*B-1		



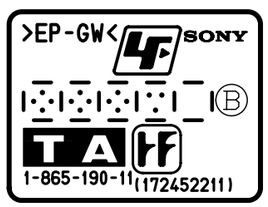
U -A SIDE-
SUFFIX: -11



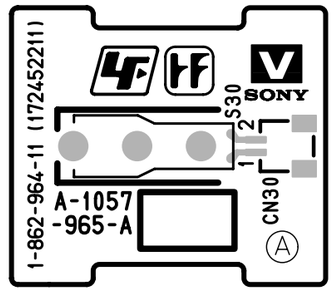
U -B SIDE-
SUFFIX: -11



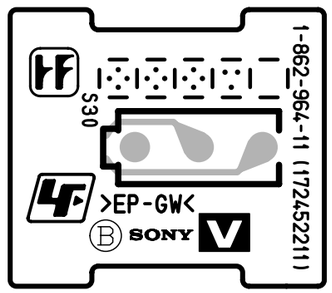
TA -A SIDE-
SUFFIX: -11



TA -B SIDE-
SUFFIX: -11



V -A SIDE-
SUFFIX: -11



V -B SIDE-
SUFFIX: -11

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer :

Check the metal trim, “metallized” knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 3.5 mA. Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers’ instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The “limit” indication is 5.25 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 20 V AC range are suitable. (See Fig. A)

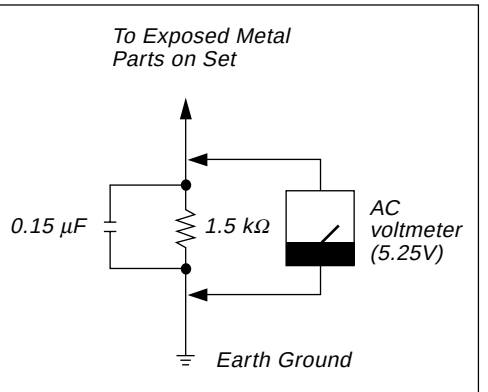


Fig A. Using an AC voltmeter to check AC leakage.

VPL-HS50 (SY)
VPL-HS51 (U) E
9-968-082-01

Sony Corporation
B&P Company

Printed in Japan
2004. 10 22
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SONY

VIDEO PROJECTOR

VPL-HS51

PROTOCOL MANUAL

1st Edition

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Appendix 19

1. Introduction

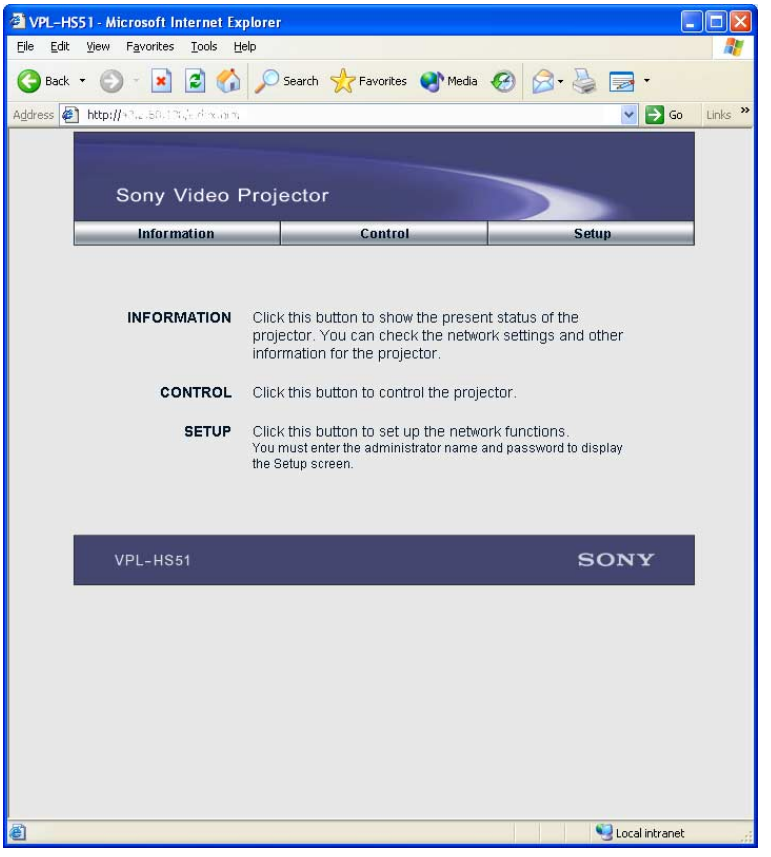
This protocol manual describes the basic configuration and basic operations of various commands used for projector. Projector can be controlled using the commands provided in “Appendix”. Using an external CONTROLLER , etc., inputs can be switched and the power can also be turned on and off. In the following paragraphs, “CONTROLLER” means an external device such as a PC which controls projector using these commands.

2. Operating the Projector from a Computer

2-1. Accessing the Projector from a Computer

You can check the present status of the projector on a computer display and control the projector from a computer.
Confirm that the projector and computer are connected to the router/hub with the LAN cables, then turn on the projector, computer and router/hub.

1. Start Internet Explorer 5.0 (or later versions) on your computer.
2. Type “http://xxx.xxx.xxx.xxx (the IP address of the projector)” as the “Address”, then press the ENTER key on your keyboard.
   You can check the IP address of the projector using the INFORMATION menu.
   Enter the IP address here.


VPL-HS51 - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites Media
Address http://
Go Links
Sony Video Projector
Information
Control
Setup
INFORMATION
Click this button to show the present status of the projector. You can check the network settings and other information for the projector.
CONTROL
Click this button to control the projector.
SETUP
Click this button to set up the network functions.
You must enter the administrator name and password to display the Setup screen.
VPL-HS51
SONY
Local intranet

2-2. Checking the Status of the Projector

Click “Information”. You can check the information and present status of the projector on a computer display. You can check the information and status in the window, but you cannot change the settings.

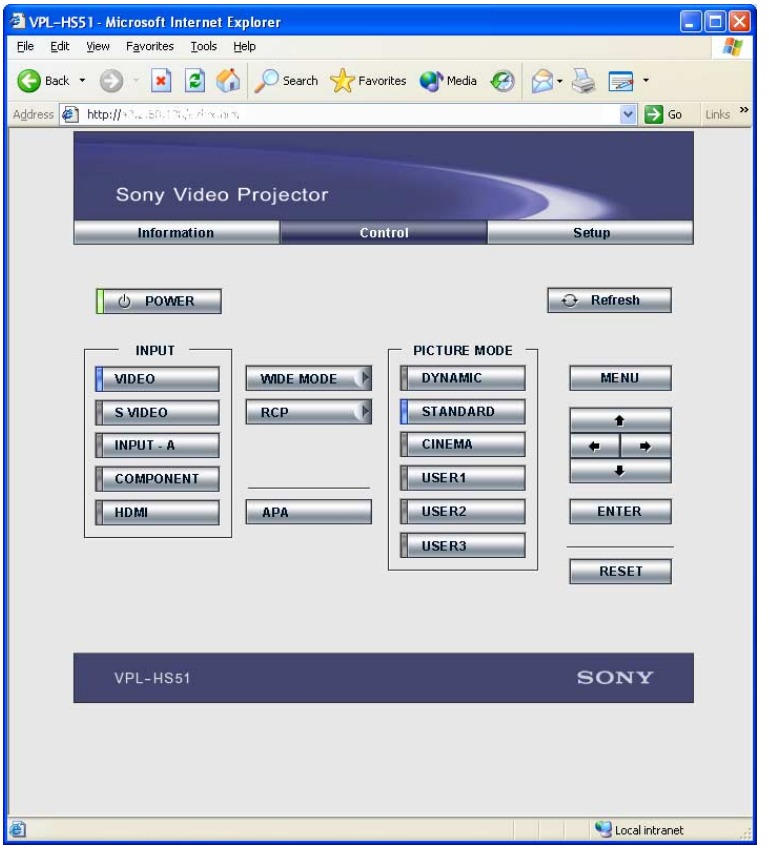
INFORMATION
The present status of the projector is displayed.

MENU
The present settings of the projector are displayed.

2-3. Controlling the Projector from a Computer

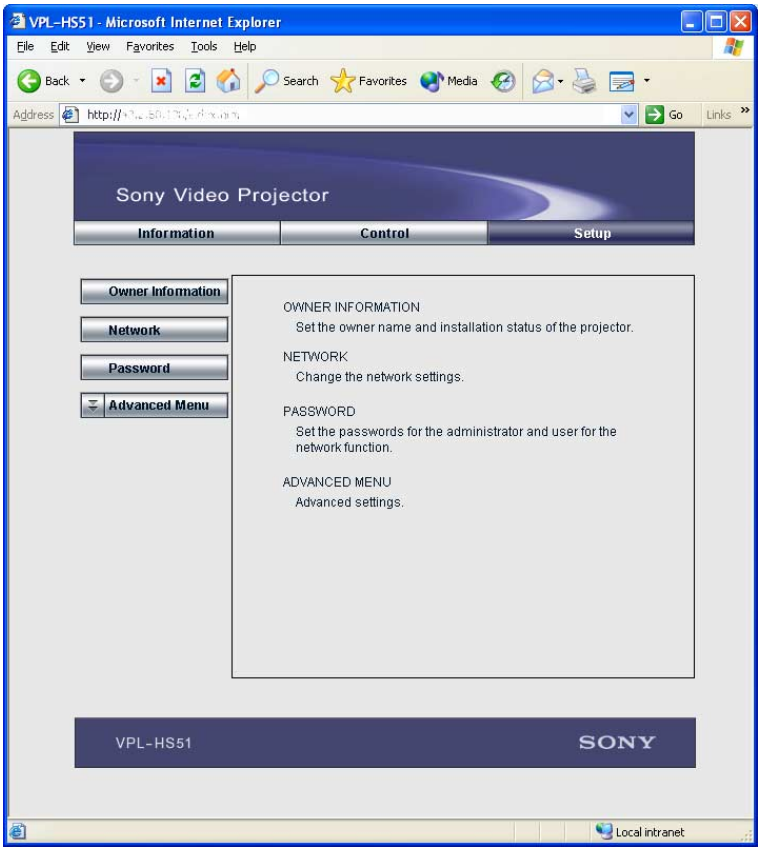
Click “Control”. You can perform various adjustments and settings of the projector on a computer display.
The functions of the buttons in the windows are the same as those on the remote supplied with the projector.

The present setting status is indicated.
If you change the setting using the remote, click “Refresh” at the upper right-hand corner of the window to update the status.



2-4. Setting Up the Projector

Click “Setup”. The Password Properties dialog box appears. The name of the “User” account is preset without a password to “root” at the factory. You can set the owner information, etc.
Click “Apply” at the lower part of each window to update the projector to the data input in each window.



2-4-1. Owner and Projector Information

Click “Owner Information”.

Owner
Enter owner information.

Projector
Enter the location of the projector.

Memo
Enter a memo, if required.

2-4-2. Network Settings

Click “Network”.

Internet Protocol (TCP/IP)
Normally, set “Obtain an IP address automatically (DHCP)”. If you select “Specify an IP address”, set the necessary items.

2-4-3. Setting Passwords for “Administrator” and “User”

Click “Password”. You can set passwords for each “Administrator” and “User”.
The name of the “Administrator” account is preset to “root” at the factory. It cannot be changed.

2-4-4. Advanced Setting

Click “Advanced Menu” to display the Advertisement button, PJ Talk button and SNMP button. These settings are mainly for professional use. These contents are indicated by the PROTOCOL manual.

3. NETWORK

This section describes the performance, operations and protocol to be used of advertisement and PJ Talk.

3-1. Advertisement

The advertisement service is provided to facilitate development of a PC application that can automatically detect a projector on the network. This function is achieved by broadcasting the equipment information periodically to the network.

3-1-1. Function

The equipment information shown below is transmitted as the broadcast packet periodically (at certain intervals).

Information	Description
Category	Category of the equipment
Equipment name	Name of the equipment
Serial number	Serial number of the equipment
Installation information	Installation location of the equipment
Community	Community name of the equipment
Power status	Power status of the equipment

Notes

- The category of projector is 0x0a.
- The power status sets ffffh if communication error occurs.

Protocol

The SDAP protocol is defined in order to provide this service.

Item	Description
Protocol name	SDAP (Simple Display Advertisement Protocol)
Transport	UDP
Port number	53862 (Factory-shipments value)
Broadcast interval	Once every 30 seconds (Factory-shipments value)

3-1-2. Setup Items

The items that can be set for the advertisement service are described below.

Setup items	Description
Port No.	Port number
Interval	Broadcast interval
Broadcast Address	Adding the transmission place.

3-2. PJ Talk

The remote control service is provided that can control the projector from remote location via network.

3-2-1. Function

This responds to the control command and requests for acquiring the status and information supplied from clients.

Control request
Enables the input to be selected and picture control to be adjusted.

SIRCS request
Enables remote control by sending the SIRCS code.

Status request
Enables equipment status information such as power status, error information and power-on time to be acquired.

Information request
Enables equipment information such as equipment name, serial number and installation information to be acquired.

Protocol

Item	Description
Protocol name	SDCP (Simple Display Control Protocol)
Transport	TCP
Port number	53484 (Factory-shipments value)
TCP connection timeout	30 seconds (Factory-shipments value)

3-2-2. Setup Items

The items that can be set for the PJ Talk service are described below.

Setup item	Description
Port No.	Port number
Timeout	TCP connection timeout time
Host Address	IP address of connectable PC

3-3. SDAP Protocol

This section describes the SDAP packet structure.

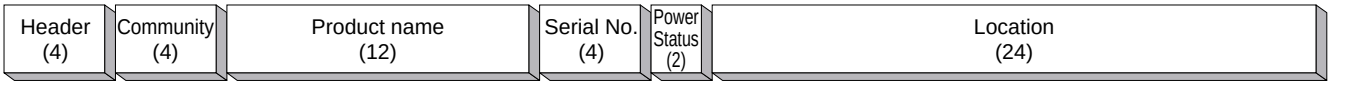


Fig.1 Packet structure

1) Header
The header consists of ID (16 bit), version (8 bit) and category (8 bit).

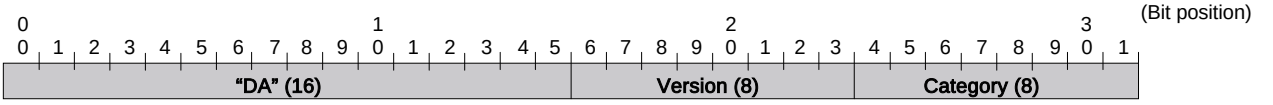


Fig. 2 Header

ID
It is fixed to "DA".

Version
This indicates the version number of protocol.
It is fixed to 01h (version 1).

Category
Category number 0Ah of the projector is entered here.

2) Community
When the community data matches the community that is set in the display equipment, the request is executed. Community consists of four alphanumeric characters (case sensitive). All display equipment has the default value "SONY" when shipped from the factory.

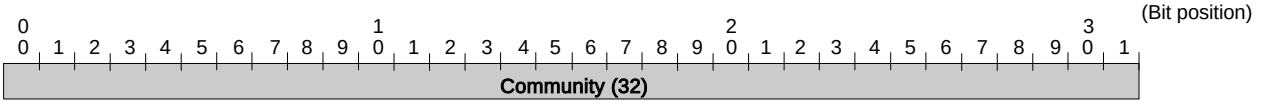


Fig. 3 Community

3) Equipment Information

Product Name
Name of equipment (Maximum twelve characters)
In case, less than twelve characters, 00h is entered in the blank space.

Serial No.
Serial number is entered.

Power Status.
Power supply status of the equipment is entered.

Location
Information of installation location (Maximum twenty four characters)
In case, less than twenty four characters, 00h is entered in the blank space.

3-4. SDCP Protocol

This section describes the packet structure of version 2.

Fig. 1 Packet structure

3-4-1. Format

3-4-1-1. Header

The header consists of version (8 bits) and category (8 bits).

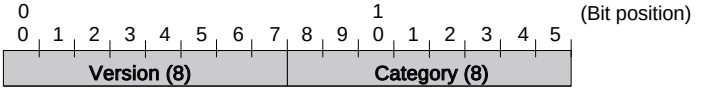


Fig. 2 Header structure

Version

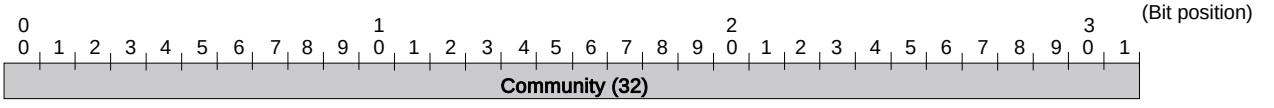
This indicates the version number of protocol.
It is fixed to 02h (version 2).

Category

Category number 0Ah of the projector is entered here. Projector checks the category number. If a different category number is entered, the request is ignored.

3-4-1-2. Community

When the community data matches the community that is set in the display equipment, the request is executed. Community consists of four alphanumeric characters (case sensitive). All display equipment has the default value “SONY” when shipped from the factory.

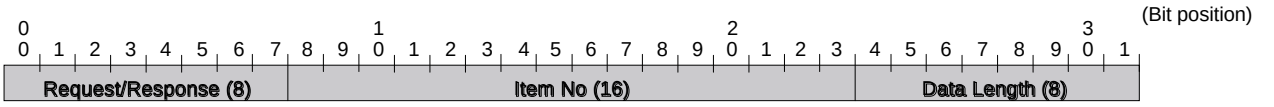


Note

Community should be entered with four characters. Three characters or less are not accepted.

3-4-1-3. Command

This section describes the format of the request command and the response command.



(1) Request
This section describes the format of the request command that is issued from the host PC to the projector.

Community
This is the same alphanumeric characters as those of community that is set in the projector to which request is going to be sent.

Request
There are only two types of request. One is the GET request to acquire the projector information and status. The other is the SET request to modify the projector setup.

Request	Contents
SET (00h)	Used to control turning the power on/off and to control the input selector, and to change the various setups.
GET (01h)	Used to acquire the installation information, equipment status and various setup values.

Item No.
This is the item number of the request target.

Data Length
This is the length of the data accompanying the request. The maximum length is 128 bytes. If there is no data, it is 0.

Data
This is the data accompanying the request.

(2) Response
This section describes the format of the response command which is used to return a response to the host PC from the projector.

Community
The same alphanumeric characters as those of the request is entered.

Response
The response returns the result of executing the request from the host PC.

Response	Contents
NG (00h)	Indicates that the request is illegal or cannot be executed.
OK (01h)	Indicates that the request was executed correctly.

Item No.
The same value as those of the request is entered.

Data Length
This is the length of the data accompanying the response. The maximum length is 128 bytes. If there is no data, it is 0.

Data
This is the data accompanying the response.

3-4-1-4. SET Request

The SET request is used to set a new value in the specified item. Details of the request and the response are described below.

Request

Request	Item No.	Data Length	Data
SET (00h)	Item No.	n	Set Data (n byte)

Response

OK (01h)	Item No.	0

3-4-1-5. GET Request

The GET request is used to acquire the value of the specified item. Details of the request and the response are described below.

Request

Request	Item No.	Data Length
GET (01h)	Item No.	0

Response

OK (01h)	Item No.	n	Get Data (n byte)

3-4-1-6. ERROR Response

When an error occurs in the contents of a request or in the result of execution, NG is returned as the response.

NG (00h)	Item No.	2	Error Code (16)

3-4-2. Items

Category	Contents	SET	GET
00**h	Used to control and to change the various setups.	○	○
01**h	Used to acquire the status.		○
03**h	Used to reset memory.	○	
17**h	Sircs (15 bit category)	○	
19**h	Sircs (20 bit category)	○	
80**h	Used to acquire equipment information.		○
90**h	Used to acquire network setup information.		○

3-4-2-1. Model Dependent Category

The supported contents of 00**h, 01**h, 03**h, 17**h and 19**h change depending on the model.
Details are shown on Appendix.

3-4-2-2. Equipment Information Acquisition (80**h)

Used to acquire the equipment information.

Lower byte	Contents	SET	GET
00h	Category Code		○
01h	Model name		○
02h	Serial number		○
03h	Installation location	○	○

0x8000 Category code
1 byte

0x8001 Model name
Alphanumeric 12 characters
If the number of characters is less than 12, the remaining digits are filled with 00h.

0x8002 Serial number
4 bytes
Note
The serial number is in the range of 00000000 to 99999999.

0x8003 Installation location
Alphanumeric 24 characters
If the number of characters is less than 24, the remaining digits are filled with 00h.

3-4-2-3. Network Information Acquisition (90**h)

Used to acquire the network setup information.

Lower bytes	Contents	SET	GET
00h	MAC Address		○
01h	IP Address		○
02h	Subnet Mask		○
03h	Default Gateway		○
04h	DHCP		○

0x9000 Mac Address
6 bytes

0x9001 IP Address
4 bytes

0x9002 Subnet Mask
4 bytes

0x9003 Default Mask
4 bytes

0x9004 DHCP
1 byte
DHCP invalid: 0
DHCP valid : 1

3-4-3. Error Code

The error code list is shown below with a detailed description of each.

Category	Error	Error Code
Item Error (01**h)	Invalid Item	01h
	Invalid Item Request	02h
	Invalid Length	03h
	Invalid Data	04h
	Short Data	11h
	Not Applicable Item	80h
Community Error (02**h)	Different Community	01h
Request Error (10**h)	Invalid Version	01h
	Invalid Category	02h
	Invalid Request	03h
	Short Header	11h
	Short Community	12h
	Short Command	13h
Network Error (20**h)	Timeout	01h
Comm Error (F0**h)	Timeout	01h
	Check Sum Error	10h
	Framing Error	20h
	Parity Error	30h
	Over Run Error	40h
	Other Comm Error	50h
	Unknown Response	F0h
NVRAM Error (F1**h)	Read Error	10h
	Write Error	20h

3-4-3-1. Item Error

This error occurs when the Item No. of a request is illegal or its data is illegal. The conditions for occurrence of the respective errors are shown below.

Invalid Item
An unsupported Item No. is specified.

Example 1: The unsupported category 0xA** is specified.
Example 2: The unsupported Item No. 0x8010 is specified.

Invalid Item Request
The Item No. is supported but an unsupported Request is issued.

Example: An attempt is made to set data in the Model Name (0x8001).

Invalid Length
Data length of the specified Item No. is too long.

Example: An attempt is made to set 25 byte data in the installation location (0x8003).

Invalid Data
Data of the specified Item No. is outside the setting range.

Example: An attempt is made to set 101 in the Item when the setting range of the Item is 1 to 100.

Short Data
The length of data is shorter than the value specified by the data length.

Example: The actual data length is 9 bytes but data length is 10.

Not Applicable Item
An item that is not valid at present is specified.

Example: The item to switch the display is specified when the main power is off.

3-4-3-2. Community Error

This error occurs when community is different.

Example: “ABCD” is specified when “SONY” is set.

3-4-3-3. Request Error

This error occurs when header or command is illegal. The conditions of occurrence of the respective errors are shown below.

Invalid Version
The version of the header is other than 2.

Note

When another version is supported, an error occurs in all versions other than the supported version.

Invalid Category
The category does not match.

Example: 0x0B is specified in the device of category = 0x0A.

Invalid Request
An unsupported request is specified.

Example: Request = 0x02 is specified.

Short Header
The received data is 1 byte.

Short Community
The received data is in the range of 2 to 5 bytes.

Short Command
The received data is in the range of 6 to 9 bytes.

3-4-3-4. Network Error

This is an error that occurs in TCP/IP. The conditions of occurrence of the respective errors are shown below.

Timeout
Communication was interrupted.

3-4-3-5. Comm Error

This is an error in communication with the main control microprocessor of the display.

Timeout
Reception data is not returned after data is sent.

Check Sum Error
A check sum error occurred in the main control microprocessor of the display.

Framing Error
A framing error occurred.

Parity Error
A parity error occurred.

Over Run Error
An overrun error occurred.

Other Comm Error
Another error occurred.

Unknown Response
The data cannot be processed was received.

3-4-3-6. NVRAM Error

Read Error
Reading from NVRAM was failed.

Write Error
Writing to NVRAM was failed.

Appendix

Communication Rules

- When sending a command from CONTROLLER, the return data from PROJECTOR should be received first before sending the next command. Even if the next command is sent before receiving the return data, since PROJECTOR will not be able to receive that command, it does not return a response to CONTROLLER. Consequently, no error code is also sent.
  The following lists the approximate waiting times for PROJECTOR to return the return data after CONTROLLER sends the command.
- When a communication error occurs, PROJECTOR ignores the data received until now, and set into the reception standby state.
- For undefined commands or commends determined as invalid by PROJECTOR, PROJECTOR will send the “NAK” return data to CONTROLLER .
- Take note that when data is written when the input signal of PROJECTOR is unstable, that data (value) will not be incorporated.
- When INDEX specified SIRCS direct command is transmitted, leave an interval of 45 msec until the next transmission. (Do not return the return data (ACK, NAK) when the SIRCS direct command is received.)

<Table 1>			<Table 2>			Remarks
Item Number			Data			
Item	Upper byte	Lower byte	Data	Upper byte	Lower byte	
Input	00h	01h	Video	00h	00h	Set/Get
			S-Video	00h	01h	
			Input-A	00h	02h	
			Component	00h	03h	
			HDMI	00h	04h	
Picture Mode	00h	02h	Dynamic	00h	00h	
			Standard	00h	01h	
			Cinema	00h	02h	
			User1	00h	03h	
			User2	00h	04h	
			User3	00h	05h	
Contrast	00h	10h	Setting value (0 to 100)	00h	00h to 64h	
Brightness	00h	11h	Setting value (0 to 100)	00h	00h to 64h	
Color	00h	12h	Setting value (0 to 100)	00h	00h to 64h	
Hue	00h	13h	Setting value (0 to 100)	00h	00h to 64h	
Sharpness	00h	14h	Setting value (0 to 100)	00h	00h to 64h	
Color Temp	00h	17h	High	00h	00h	
			Mid	00h	01h	
			Low	00h	02h	
			Custom1	00h	03h	
			Custom2	00h	04h	
			Custom3	00h	05h	
Lamp Control	00h	1Ah	Low	00h		
			High	01h		
DDE	00h	1Bh	Off	00h		
			Progressive	01h		
			Film	02h		
Black Level Adj.	00h	1Ch	Off	00h		
			Low	01h		
			High	02h		
Advanced Iris	00h	1Dh	Off	00h		
			On	01h		
			Auto	02h		
RCP (Real Color Processing)	00h	1Eh	Off	00h		
			User 1	01h		
			User 2	02h		
			User 3	03h		

<Table 1>			<Table 2>			Remarks
Item Number			Data			
Item	Upper byte	Lower byte	Data	Upper byte	Lower byte	
Wide Mode	00h	20h	Full	00h		Set/Get
			Normal	01h		
			Wide Zoom	02h		
			Zoom	03h		
			Subtitle	04h		
PictureMuting	00h	30h	Off	00h	00h	
			On	00h	01h	
Input-A Signal Sel	00h	32h	Auto	00h	00h	
			Computer	00h	01h	
			Component	00h	02h	
			Video GBR	00h	03h	
USER Gain Red	00h	50h	Setting value (−30 to 30)	E2h to 1Eh (−30 to 30)		
USER Gain Green	00h	51h	Setting value (−30 to 30)	E2h to 1Eh (−30 to 30)		
USER Gain Blue	00h	52h	Setting value (−30 to 30)	E2h to 1Eh (−30 to 30)		
USER Bias Red	00h	53h	Setting value (−30 to 30)	E2h to 1Eh (−30 to 30)		
USER Bias Green	00h	54h	Setting value (−30 to 30)	E2h to 1Eh (−30 to 30)		
USER Bias Blue	00h	55h	Setting value (−30 to 30)	E2h to 1Eh (−30 to 30)		
Gain Red	00h	80h	Setting value (0 to 255)	00h	00h to FFh	
Gain Green	00h	81h	Setting value (0 to 255)	00h	00h to FFh	
Gain Blue	00h	82h	Setting value (0 to 255)	00h	00h to FFh	
Bias Red	00h	83h	Setting value (0 to 255)	00h	00h to FFh	
Bias Green	00h	84h	Setting value (0 to 255)	00h	00h to FFh	
Bias Blue	00h	85h	Setting value (0 to 255)	00h	00h to FFh	
Status Error	01h	01h	No Error	00h	00h	Get only
			Lamp Error	00h	01h	
			Fan Error	00h	02h	
			Cover Error	00h	04h	
			Temp Error	00h	08h	
			D5V Error	00h	10h	
			Power Error	00h	20h	
			Temp Warning Error	00h	40h	
			NVM Data Error	00h	80h	
Status Power	01h	02h	Standby	00h	00h	
			Start Up	00h	01h	
			Start Up Lamp	00h	02h	
			Power On	00h	03h	
			Cooling1	00h	04h	
			Cooling2	00h	05h	
			Saving Cooling1	00h	06h	
			Saving Cooling2	00h	07h	
			Saving Standby	00h	08h	

<Table 1>			<Table 2>			Remarks
Item Number			Data			
Item	Upper byte	Lower byte	Data	Upper byte	Lower byte	
Control Mode	01h	05h	User Mode	00h	00h	Get only
			Service Mode	00h	01h	
Lamp Timer	01h	13h	Lamp Use Time	0000h-FFFFh ∗1		
ROM Version	01h	1Dh	MAIN ROM Version	∗2		
SC1 ROM Version	01h	1Eh	SC1 ROM Version	∗2		
NVM Data Version	01h	27h	NVM Data VERSION	∗3		
W/B All Save	03h	04h	–	00h	00h	Set only
W/B Low Save		05h				
W/B High Save		06h				
Sircs(15 bit category)	17h	Refer to Table4	–	00h	00h	Set only ∗4
Sircs(20 bit category)	19h	Refer to Table5	–	00h	00h	

*1 Example) In case the lamp timer indicates 1000H, return values are [03h] upper byte and [E8h] lower byte.
*2 Example) In case the software version is 1.03, return values are [01h] upper byte and [03h] lower byte.
*3 Example) In case the NVM data version is 3, return values are [00] upper byte and [03] lower byte.
*4 It is corresponded to single command only.
When Sircs Direct Command is sent, return data may not be returned.

<Table 3>			
Item Number		Data	
Item	Data	Upper byte	Lower byte
ACK	–	00h	00h
NAK	Undefined Command	01h	01h
	Size Error		04h
	Select Error		05h
	Range Over		06h
	Not Applicable		0Ah
	Check Sum Error	F0h	10h
	Framing Error		20h
	Parity Error		30h
	Over Rub Error		40h
	Other Comm Error		50h

Approximate Return Waiting Times
The await-return time is approx. 200 msec.

Note

This is the case, unless the communications are interfered anyway.

List of SIRCS CODE

(1) 15BIT category

<Table 4>

	x0	x1	x2	x3	x4	x5	x6	x7	x8	x9	xA	xB	xC	xD	xE	xF
0x																
1x						POWER ON/OF ∗1			CONTRAST+ HIGH	CONTRAST− LOW	COLOR+ HIGH	COLOR− LOW			BRITNESS+ BRIGHT	BRITNESS− DARK
2x	HUE+ PURPLISH	HUE− GREENISH	SHARPNESS+ SHARP	SHARPNESS− SOFT	PICTURE MUTING	STATUS ON	STATUS OFF			MENU	VIDEO	INPUT A	COMPONENT		POWER ON/OF ∗1	POWER OFF
3x				CURSOR →	CURSOR ←	CURSOR ↑	CURSOR ↓									
4x		ADJ R	ADJ G	ADJ B				RGB SIZE	RGB SHIFT							
5x			W/B GAIN	W/B BIAS				INPUT SELECT			ENTER				MEMORY	S VIDEO
6x																HDMI
7x												RESET				

∗1: When the standby mode is set to “Low”, the projector main unit goes into the power saving mode in approx. 1 minute after standby state.
When a command is sent during the power saving mode, “Not Applicable” is returned.
However, the command is carried out when it is sent again.

(2) 20BIT category

<Table 5>

	x0	x1	x2	x3	x4	x5	x6	x7	x8	x9	xA	xB	xC	xD	xE	xF
0x									RCP	ADJUST PICTURE TGL						
1x																
2x																
3x											KEYSTONE					
4x													DDE TGL			
5x		PICTURE MODE DYNAMIC	PICTURE MODE STANDARD	PICTURE MODE CINEMA	PICTURE MODE USER1	PICTURE MODE USER2	PICTURE MODE USER3					PICTURE MODE TGL				
6x	APA	DOT PHASE													WIDE MODE TGL	
7x																

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